Columbia University Bulletin

The Faculty of Medicine
College of Physicians & Surgeons
1989–1990

Serial
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Inquiries

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Columbia University Bulletin

The Faculty of Medicine
College of Physicians & Surgeons
1989–1990

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Academic Calendar, 1989–1990

The following Academic Calendar was correct and complete as of the time of publication; however, the University reserves the right to revise or amend it, in whole or in part, at any time. Information on the current status of the Academic Calendar may be obtained in the Office of Student Information Services, 141 Black, 212-305-3477.

Major Religious Holidays

For a statement of University policy regarding religious holidays, see *University Regulations*.

Some of the major holidays occurring on weekdays are listed below. The Jewish and Islamic holy days begin at sundown of the preceding day. The exact dates for the Islamic holy days may vary by one or two days from the estimated dates given below.

1989

Saturday, Sunday, September 30, October 1	Rosh Hashanah
Monday, October 9	Yom Kippur
Saturday, Sunday, October 14, 15	First days of Succoth
Saturday, Sunday, October 21, 22	Concluding days of Succoth

1990

Tuesday, Wednesday, April 10, 11	First days of Passover
Friday, April 13	Good Friday
Monday, Tuesday, April 16, 17	Concluding days of Passover
Thursday, Friday, April 26, 27	Id al Fitr
Wednesday, Thursday, May 30, 31	Shavuoth
Tuesday, July 3	Id al Adha
Thursday, Friday, September 20, 21	Rosh Hashanah
Saturday, September 29	Yom Kippur
Thursday, Friday, October 4, 5	First days of Succoth
Thursday, Friday, October 11, 12	Concluding days of Succoth

1991

Friday, March 29	Good Friday
Saturday, Sunday, March 30, 31	First days of Passover
Friday, Saturday, April 5, 6	Concluding days of Passover
Tuesday, April 16	Id al Fitr
Sunday, Monday, May 19, 20	Shavuoth
Sunday, June 23	Id al Adha

JUNE

13–14 NEME 1, Class of 1991. Passing required for graduation from P&S.

14–15 Registration period for Classes of 1990 and 1991.

16 Friday. Academic year begins for Class of 1991.

26 Monday. Academic year begins for Class of 1990.

JULY

1 Saturday. Class of 1990 reports to hospital rotations.

3 Monday. Class of 1991 reports to hospital rotations.

4 Tuesday. **Independence Day observed for third- and fourth-year students.**

AUGUST

1 Tuesday. Last day to apply for all degrees to be conferred in October.

16–22 Wednesday–Tuesday. Orientation for first-year students.

18 Friday. †Registration for first-year students.

21–22 Monday–Tuesday. †Registration for second-year studens who have not yet registered by mail.

23 Wednesday. Academic year begins for first- and second-year students; late registration begins.

SEPTEMBER

4 **Monday. Labor Day holiday for first-, second-, and third-year students.**

6–7 Wednesday and Thursday. National Board Part 1 Examination for students failing June 13–14 examination.

26–27 Tuesday–Wednesday. National Board II examination for fourth-year students. Passing required for graduation from P&S.

OCTOBER

25 **Wednesday. Awarding of October degrees.**

NOVEMBER

7 **Tuesday. Election Day. Half-day holiday for first- and second-year students.**

23–24 **Thursday–Friday. Thanksgiving holiday for first- and second-year students.**

23 **Thursday. Thanksgiving holiday for third-year students.**

DECEMBER

1 Friday. Last day to file *late* applications for February degrees.

16 **Saturday–Monday, January 1. Vacation for first-year students.**

19 **Tuesday–Monday, January 1. Vacation for second- and third-year students.**

JANUARY

2 Tuesday. Resumption of classes for first-, second-, and third-year students.

2 Tuesday. Second semester begins for first-year students.

15 Monday. **Martin Luther King's Birthday observed. Holiday for first- and second-year students.**

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†*Students allowed to register after the period specified must pay a late fee.*

FEBRUARY

14 **Wednesday. Awarding of February degrees.**

19 **Monday. Washington's Birthday. Holiday for first- and second-year students.**

MARCH

1 Thursday. Last day to apply for all degrees to be conferred in May.

17–25. **Saturday–Sunday. Spring vacation for first- and second-year students.**

24-April 1. Saturday through Sunday. Spring vacation for first-year students.

APRIL

3–4 Tuesday and Wednesday. National Board Part II for students failing September 26–27 examination.

MAY

9 Wednesday. Dean's Day for Medical Student Research.

16 **Wednesday. Columbia University Commencement and Convocation of the College of Physicians and Surgeons.**

20 **Monday. Memorial Day holiday for first-, second-, and third-year students.**

JUNE

1 Friday. Year ends for second-year students.

8 Friday. Second semester ends for first-year students.

11–14 Monday–Thursday. Registration for Classes of 1991 and 1992.

12–13 **Tuesday and Wednesday. National Board Part I Examination. Passing required for graduation from P&S.**

15 **Friday. Major Clinical Year concludes for third-year students.**

18 **Monday. Academic year begins for Class of 1991.**

JULY

1 Sunday. Class of 1991 reports to hospital rotations.

2 Monday. Hospital rotations begins for Class of 1992.

4 **Tuesday. Independence Day holiday.**

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JOSEPH ZUBIN. *Professor Emeritus of Psychology*

The College of Physicians and Surgeons and Affiliated Hospitals

The College of Physicians and Surgeons is guided by the principle that medical education is university education. The acquisition of knowledge and skills is important in professional education, but far more vital is a profound understanding of the science, the art, and the ethic within which both knowledge and skill are applied. As a part of Columbia University, the College builds its curriculum, selects its officers of instruction, and marshals its enormous resources of equipment and clinical experience to develop in the student this understanding of medicine. Within the curriculum for the M.D. degree is the fundamental knowledge upon which later specialization is built, and from which the natural bent is discovered toward general or special practice, or toward research, teaching, or administration. The postgraduate programs of the College provide training in the specialties, help the graduate physician to keep abreast of new knowledge, and support the research from which the physician's knowledge develops.

History of the College and University

Columbia University began as King's College, which was founded in 1754 by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The American Revolution interrupted its program, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

King's College organized a medical faculty in 1767, and was the first institution in the North American Colonies to confer the degree of Doctor of Medicine. The first graduates in medicine from the College were Robert Tucker and Samuel Kissam, who received the degree of Bachelor of Medicine in May 1769, and that of Doctor of Medicine in May 1770 and May 1771, respectively. Instruction in medicine was given until interrupted by the Revolution and the occupation of New York by the British, which lasted until November 25, 1783. In 1784 instruction was resumed in the academic departments, and in December of the same year the medical faculty was reestablished. In 1814 the medical faculty of Columbia College was merged with the College of Physicians and Surgeons, which had obtained an independent charter in 1807. In 1860, by agreement between the Trustees of the two institutions, the College of Physicians and Surgeons became the Medical Department of Columbia College; from that time on the diplomas of the graduates were signed by the President of Columbia College as well as by the President of the College of Physicians and Surgeons. The connection was only a nominal one, however, until 1891, when the college was incorporated as an integral part of the University. Since September 1917, women have been admitted to the College on the same basis as men.

The Columbia-Presbyterian Medical Center was opened in the spring of 1928, seven years after the establishment of a permanent alliance between Columbia University and the Presbyterian Hospital. It consists of the following units: the divisions of the University Faculty of Medicine (the College of Physicians and Surgeons, the School of Nursing, the School of Public Health); the University School of Dental and Oral Surgery; the Presbyterian Hospitals and its subdivisions; the New York State Psychiatry Institute; and the Washington Heights Health and Teaching Center.

The Medical Center occupies a plot of land given to Columbia University and the Presbyterian Hospital by Mrs. Stephen V. Harkness and Mr. Edward S. Harkness. It comprises about twenty acres extending from West 165th Street to West 168th Street and from Broadway to Riverside Drive and is readily accessible from all parts of the city. A map of the Medical Center is given on the inside back cover.

The College of Physicians and Surgeons is at 630 West 168th Street between Broadway and Fort Washington Avenue in a seventeen-story building, each floor of which connects with the wards and services of the Presbyterian Hospital. The William Black Medical Research Building is a twenty-story building, containing research laboratories for the faculty members of the College of Physicians and Surgeons. It is connected with the College building and is located at 168th Street and Fort Washington Avenue. The Julius and Armand Hammer Health Sciences Center,

a twenty-story structure diagonally opposite the William Black Medical Research Building, opened its teaching, research, and library facilities in 1976.

Augustus C. Long Health Sciences Library

The Columbia University Health Services Library is housed in the Julius and Armand Hammer Health Sciences Center, 701 West 168th Street. The four floors occupied by the library offer a comfortable atmosphere conducive to study, including such amenities as individual study carrels, group study and conference rooms, and a leisure reading lounge.

With almost 450,000 volumes and a staff of 50, the Health Sciences Library is one of the largest medical center libraries in the United States. It is well able to serve the needs of faculty, students, and researchers in the health sciences disciplines. More than 4,000 periodicals are received regularly. The library includes a comprehensive media center equipped with audiovisual materials and equipment, a microcomputer laboratory and classroom, and a significant rare book and special collections section. The library offers a wide array of information services, including computerized literature searching, individual consultation on research topics, and instruction on the use of information resources. Materials describing library services are available on request.

Other Columbia libraries, located on the Morningside campus, are open to all students and faculty who carry Columbia identification cards. The main collection is housed in Butler Library; special and departmental collections are housed in other buildings on the campus. Columbia students and faculty are also permitted access to the collections of many other research institutions including Stanford and Yale Universities, under the auspices of the Research Libraries Group. Information about the Research Libraries Group can be obtained from the Health Services Library.

Comprehensive Cancer Center and Institute of Cancer Research

The Cancer Center was established in 1972. In 1979 the Center was awarded Comprehensive status by the National Cancer Institute in recognition of its broad responsibility for research, patient care, cancer education, and cancer control activities. The Center coordinates, integrates, and facilitates cancer research, education, and patient care in the Health Sciences Faculties of Columbia University and its affiliated hospitals in New York City—Presbyterian, St. Luke's-Roosevelt, Harlem—as well as Overlook in Summit, New Jersey, and Morristown Memorial Hospital in New Jersey. The Cancer Center was organized to effect the efficient and cooperative use of all Center resources, maximize the dissemination of information among Center personnel, stimulate basic cancer research, and facilitate the rapid translation of cancer research findings into programs for improving capabilities for the prevention of cancer and the diagnosis, treatment, and care of patients with cancer.

The Institute of Cancer Research of Columbia University College of Physicians and Surgeons was established in 1911 with funds bequeathed to the University by George Crocker. It moved from its original quarters on 116th Street to the campus of the Columbia-Presbyterian Medical Center in 1938.

The Comprehensive Cancer Center and the Institute of Cancer Research are mutually involved in a clinical and basic research cancer effort, although their administrations function autonomously.

The Centers for Community Health

The Centers for Community Health are composed of a Center for Health Services Research and a Collaborative Program in Oral Health with the School of Dental and Oral Surgery whose research program is one of the few in the country directed toward an area of health services which has long been neglected. The Centers provide a locus for student teaching and research by the Faculty of Medicine and the School of Public Health, especially health administration, on prob-

lems of the delivery, financing, and distribution of health care in a diverse group of institutions in the inner city and the suburbs.

Center for Geriatrics and Gerontology

The Center was established in 1979 by the Faculty of Medicine and the New York State Office of Mental Health and is a resource for teaching, research, and clinical model development in geriatrics and gerontology in medical and long-term care facilities and in community settings. The components of the Center comprise an independent entity in the Faculty of Medicine, a Division of the School of Public Health, and a Department in the New York State Psychiatric Institute. Its major focus is cross-national research and the care of the elderly, with an emphasis on the interplay of medical, mental, and social problems.

Howard Hughes Medical Institute Program in Molecular Neurobiology

The Program is the only one of the ten Hughes Medical Institute Programs in the country to be devoted to the neurosciences. Its establishment in 1984 made possible the scientific integration of the College's widely acclaimed research efforts in the neurobiology of ion channels, learning, development, and critical areas of molecular genetics. In addition to six established investigators in these fields, the Center personnel include postdoctoral fellows, staff scientists, and support staff.

Howard Hughes Medical Institute Program in Structural Biology

Begun in 1986, the program is part of a larger effort by the Institute, which houses several of its research laboratories in various medical centers. This program, which focuses on biophysical studies of molecular structure, is centered in three areas: direct research activities in diffraction studies of macromolecular structure and function, core facilities for molecular biophysics, and a synchroton radiation resource at Brookhaven National Laboratory.

Center for the Study of Society and Medicine

The Center was established in 1982 to enrich the teaching and practice of medicine with the conceptual and policy insights of the social sciences and humanities. Its collaborative effort provides a unique opportunity for scholars trained in sociology, law, history, social work, philosophy, and economics to work together with medical clinicians and researchers. Principal members of the Center faculty have appointments in the Department of Medicine, which enables them to offer instructional programs taught jointly by clinicians, social scientists, and humanists. Center faculty teams teach a required course for second-year medical students on the social forces shaping contemporary medical practice, conduct seminars for medical house staff, participate in daily hospital rounds, and lecture at Columbia-affiliated institutions. The Center also offers summer research fellowships for first-year medical students to study issues in social medicine.

Irving Center for Clinical Research

The Herbert and Florence Irving Center for Clinical Research is a resource for the purpose of stimulating multidisciplinary, intensive investigation of human disease. It includes a fourteen-bed Adult Unit, a four-bed Pediatric Unit, a Metabolic Diet Kitchen, an Outpatient Unit, a Core Laboratory, and a Computer Facility. The Center is designed so that acutely ill, as well as

ambulatory patients, can be studied. Use of the Center is open to qualified faculty members of the clinical and basic science departments of the College of Physicians and Surgeons upon approval of the Advisory Committee. Although the primary purpose of the facility is concerned with research, it also provides unusual opportunities for undergraduate and postgraduate training in clinical investigation.

In the Adult Unit major research activities include bone and mineral metabolism, cardiac electrophysiology and pharmacology, cardiovascular pathophysiology, cardiac transplantation, endocrinology/endocrine transplantation, epidemiology, extracorporeal and photochemotherapy, hypertension, immunology/rheumatology, lipid and lipoprotein metabolism, movement disorders, neuromuscular diseases, pharmacokinetics and antibiotics, porphyria, psychiatry, reproductive biology, secretory diarrheas, and thrombosis.

In the Pediatric Unit major research activities include hemolytic anemias, infant nutrition, lead poisoning, perinatology and total parenteral nutrition.

Gertrude H. Sergievsky Center

The Sergievsky Center is a center for research in the epidemiology of epilepsy, cerebral palsy, and developmental brain disorders. The Center has a core scientific faculty concerned with the development of research in the epidemiology of those diseases. Funded with an endowment, it participates in the teaching programs of the Epidemiology Division of the School of Public Health and the Departments of Neurology and Pediatrics and provides a major resource in epidemiology research and training in neuroepidemiology.

Institute of Human Nutrition

The Institute of Human Nutrition is an interdisciplinary unit whose mission is to study all aspects of nutrition that relate to human health. The Institute serves to conduct, coordinate, and lead nutrition research and education activities throughout Columbia University and its affiliated institutions. These activities include basic science research, clinical research and training, public health/preventive medicine programs, and education and training at many levels. A long-standing mission of the Institute is to train individuals for scholarly activities and for positions in universities and research centers that are in the forefront of the movement to advance nutrition as a health science. In addition, the Institute seeks to augment the training of physicians and other health specialists who are genuinely interested in emphasizing nutrition in their professions.

To achieve this integration of purpose and at the same time allow for the specialization necessary for the best research and teaching, the Institute functions to coordinate academic nutrition activities being carried out within many units (Faculties, Departments, Centers) within the Columbia University system. Although each unit conducts its own program of research and training, combined research projects among the units are under way and joint seminars and courses involving faculty members and students in all units are conducted regularly.

The facilities participating in the Institute programs include the Irving Clinical Research Center; the Protein Chemistry Core Laboratory and Arteriosclerosis Research Center, and the St. Luke's–Roosevelt Hospital Center's Obesity Research and Nutrition and Metabolic Research Centers.

International Institute for the Study of Human Reproduction

The International Institute for the Study of Human Reproduction was founded in 1965 by Dr. Howard C. Taylor and was made possible by a substantial grant from the Ford Foundation. The primary purpose of the founders was to foster research in the sciences relevant to the solution of the world population problem. In more recent years, the aims of the Institute have been interpreted more broadly to include teaching, research, and the provision of clinical and social ser-

vices related to the reproductive health of men and women. The Institute now consists of three centers.

The Center for Reproductive Sciences is a multidisciplinary group of basic and clinical research scientists with a specific interest in the overlapping field of genetics and early development, particularly concerned with understanding the mechanisms which control normal germ cell development, normal genome expression and their significance in the production of abnormal human offspring. The Center includes divisions of genetics of reproduction, male reproductive endocrinology, female reproductive endocrinology, neuroendocrinology and gametogenesis, growth and early development. Individual and collaborative research has been carried out in specific basic science areas. Among them are gene expression in early development, the regulation of pituitary/hypothalamus peptide hormone gene expression, biochemistry, ultrastructure, and genetics of mammalian germ cell production, female primate reproductive neuroendocrinology, the ontogeny of sexual differentiation in organotypic tissue culture systems of the rodent brain, CNS gonadotropin receptors, kinetics of GnRH metabolism, the role of trace elements in spermatogenesis, biochemical kinetics of spermatogenesis, and chemistry of sperm motility. Clinical activities in human male and female reproductive endocrinology and genetics are also well represented with emphasis on hormonal or genetic infertility, induction of ovulation, and therapy of male infertility.

The aims of the Center for Population and Family Health are more specifically relevant to the social consequences of human reproduction. The Center's community-oriented Reproductive Health Services for Women Unit, in cooperation with the division of ambulatory care of the Department of Obstetrics and Gynecology, provides care, with emphasis on services for adolescents, to the community surrounding the Columbia-Presbyterian Medical Center. The Center's International Research and Technical Assistance Unit works with a number of foreign governments and with private organizations toward improved basic health and family planning services for poor people in developing countries. The Social Sciences Research Unit conducts ongoing evaluations of the Center's domestic reproductive service programs and carries out a basic research program on the causes and consequences of adolescent fertility. Finally, as a division of the School of Public Health, the Center provides academic programs leading to the M.P.H. and Dr.P.H. degrees in the fields of population/family planning, maternal and child health, and public health nutrition.

The offices of the Centers for Reproductive Sciences and for Male Reproduction are at 630 West 168th Street and the office for the Center for Population and Family Health is at 60 Haven Avenue, Floor B-3, New York, N.Y. 10032.

Affiliated Hospitals

The Presbyterian Hospital in the City of New York

Founded in 1868, the Hospital joined with the Columbia College of Physicians and Surgeons to form the Columbia-Presbyterian Medical Center, which opened in 1928. Under the terms of the permanent alliance agreement with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the hospital on nomination by the Trustees of the University. The Presbyterian Hospital has an overall capacity of 1,485 beds and 96 bassinets. A major modernization program completed in 1989 encompassed the renovation of 440 beds and the replacement of 745 at Columbia-Presbyterian Medical Center, the expansion of pediatric surgery and imaging in the Babies Hospital Division, and the completion of a new 300-bed community Hospital—the Allen Pavillion—at the northern tip of Manhattan.

The Hospital includes all of the individual units described below:

The new Milstein Hospital Building, the single largest hospital pavilion, with 745 beds, is to be dedicated in 1989.

The New York Orthopaedic Hospital opened as a dispensary in 1866 largely because of the interest taken in the care of the crippled by Theodore Roosevelt, father of the president of the same name. The hospital was located in its own buildings at 420 East 59th Street until December 1950, when it was merged with The Presbyterian Hospital as its orthopedic service.

Squier Urological Clinic is the Urology Service of The Presbyterian Hospital.

Sloane Hospital for Women, currently the Hospital's obstetrics and gynecology service, was built at West 59th Street and Amsterdam Avenue and presented to Columbia University by Mr. and Mrs. William D. Sloane in 1886.

Harkness Pavilion, erected when the Medical Center was established in 1928, provides a variety of adult patient care services.

Babies Hospital, founded in 1887, provides for general medical and surgical care of infants and children up to their late teens, and care for premature babies. It became The Presbyterian Hospital's children's hospital division in 1943.

Neurological Institute, one of the first nongovernmental hospitals in the country for the treatment of diseases of the nervous system, was founded in 1909. It moved from East 67th Street to the Medical Center in 1929.

The Edward S. Harkness Eye Institute, site of the Hospital's Ophthalmology Service, opened in 1933. It has complete facilities for the medical and surgical treatment of adults and children with diseases of the eye. On January 1, 1940, the work of the Herman Knapp Memorial Eye Hospital was taken over by the Institute.

Vanderbilt Clinic was presented to Columbia University by the Vanderbilt family in 1888 and is the outpatient department for the Presbyterian Hospital.

Atchley Pavilion contains administrative and doctors' offices as well as specialized ambulatory care centers.

The Allen Pavilion is a 300-bed community hospital which opened at 220th Street and Broadway in 1988.

Washington Heights/Inwood Ambulatory Care Network Corporation (ACNC) is a multi-site network of doctors' offices established in the surrounding community by the Presbyterian Hospital.

The Mary Imogene Bassett Hospital

The Mary Imogene Bassett Hospital in Cooperstown, New York, is a rural hospital combining the characteristics of a university medical center with a dedication to the delivery of both primary health services to the local community and highly specialized services to a large referral area. The hospital has 180 beds and a staff of specialists who are all salaried and full time. In 1983 there were 146,000 visits to the Outpatient Department and 6,250 admissions. The teaching program for house staff and students is a highly personalized one based on a team approach to medical care. Members of the staff conduct biomedical research and are interested in models for the delivery of health care to the community. The library is unusually extensive for a hospital of this size, with over 22,000 volumes and about 600 subscribed journals. Since 1947 the hospital has had a formal affiliation with Columbia, and currently about 60 students from Columbia elect programs at the Mary Imogene Bassett Hospital.

Harlem Hospital Center

Harlem Hospital Center, founded in 1887, is a progressive acute general teaching hospital offering primary, secondary, and tertiary care for children and adults living in the Central Harlem area and environs. The main complex consists of seven buildings. Eleven strategically located satellites extend the hospital out into the community. Operating with 672 certified beds and managing over 450,000 annual clinic visits, the hospital functions as the primary health care provider for a catchment area of three and a half square miles. Since 1968, the College of Physicians and Surgeons, through a contractual arrangement with the New York City Health

and Hospitals Corporation, has been responsible for all professional medical services in this hospital and nominates its professional staff. This affiliation presents a unique opportunity for teaching students, interns, and residents in the traditional disciplines of medicine and provides increasing opportunities for involvement in community medicine.

The Helen Hayes Hospital

The Helen Hayes Hospital at West Haverstraw, New York, founded in 1900, is an independent rehabilitation hospital with complete medical services, owned and operated by the state through the New York State Health Department. Since 1966 the hospital has had a formal affiliation with Columbia University. The medical specialties and allied health professionals are organized into disability units that provide comprehensive care through an integrated team approach, providing unique educational opportunities for residents and allied health students. The hospital has over 800 admissions and 12,000 outpatient visits a year. In 1980 a new 206-bed hospital building was opened, work began on construction of new research quarters, and plans were completed for establishment of several major new research centers. The hospital's long-standing program of bioengineering research has become the Orthopedic Engineering and Research Center; to this has been added the Regional Bone Center, Regional Arthritis Center, and Neurology Center.

Morristown Memorial Hospital

Morristown Memorial Hospital is a regional hospital center offering comprehensive health services for the entire family. It is a voluntary, nonprofit institution with a history of community service dating back to 1892. The hospital has become a central health care facility serving Morris, Warren, Sussex, and Somerset counties, and a medical referral center for all of northwest New Jersey. Morristown Memorial is also a teaching hospital, with programs for medical, nursing, and technical staff. It became affiliated with the College of Physicians and Surgeons in 1979. Morristown Memorial, Overlook Hospital in Summit, and St. Barnabas Hospital in Livingston are members of the Shared Services Consortium pioneering regionalized health care services in northern New Jersey. With 689 beds, 1,800 employees, 550 nurses, a medical and dental staff of more than 550, and a full spectrum of basic and highly specialized services, Morristown Memorial combines the traditional advantages of a community hospital with the advanced capabilities of a progressive medical center. The hospital has two divisions: one where the emphasis is on acute care; the other, a center for preadmission testing, geriatric extended care, outpatient and alcoholic services, and planned facilities for subacute and rehabilitative care.

Overlook Hospital

Overlook Hospital in Summit, New Jersey, is a 551-bed suburban community hospital, founded in 1906, which became a teaching affiliate of the Columbia University College of Physicians and Surgeons in 1975. Overlook trains approximately 96 residents a year. It is a general, voluntary, nonprofit institution accommodating 25,000 inpatients and 100,000 outpatients each year. Overlook offers particularly strong training in family practice and primary care internal medicine and pediatrics through a program of broad-based clinical experience for graduate physicians. Outreach programs have been pioneered in alcoholism and other addictive illness, home-care and home-based hospice, and mobile intensive care utilizing paramedics. The hospital's Center for Community Health provides outpatient services including preadmission testing, ambulatory surgery and radiology, and a consumer health library. A construction/renovation project, which will increase the bed complement by 84, was initiated in 1983. Overlook maintains an open staff policy in regard to admissions to the medical staff, which at the present time numbers 550.

St. Luke's—Roosevelt Hospital Center

St. Luke's Hospital Center, which has included Woman's Hospital since 1953, merged with The Roosevelt Hospital in 1979, forming a Hospital Center containing 1,315 beds and serving a catchment area spanning Manhattan's west side from 34th to 134th Streets. Both hospitals had maintained teaching affiliations with the College of Physicians and Surgeons of Columbia University for many years before 1971, when they each became full University hospitals. The medical staff of the Hospital Center numbers over 1,200; the house staff consists of approximately 400 fellows and residents.

St. Luke's Hospital Center Division

St. Luke's was established in 1850 and has been on Morningside Heights next to the main Columbia campus since 1896. It merged with Woman's Hospital in 1953, and today the hospital complex contains 780 beds, including 63 pediatric beds, 58 obstetric beds, and 58 bassinets. Approximately 26,500 patients are admitted yearly to the four major and eleven specialty services.

St. Luke's is recognized as a leader in such fields as heart surgery, kidney transplantation, artificial kidney treatments, and noninvasive diagnosis (ultrasound). The Hospital Center's clinically oriented research projects are involved in such areas as blood diseases, coronary artery disease, gastroenterology, obesity and nutrition (it is the site of the only federally funded obesity research center), pulmonary disease, renal transplant-immunology, and bioengineering. A medical library of 32,000 volumes is an integral part of the Hospital Center. St. Luke's is both a major referral institution and a community hospital. The more than fifty specialty and subspecialty clinics see 50,000 patients yearly (totaling approximately 180,000 visits); the Emergency Room, a designated Trauma Center, is one of the busiest in Manhattan, with 77,000 visits annually. The Hospital Center also operates extensive community programs in alcoholism treatment, drug detoxification, and mental health.

Roosevelt Hospital Division

The Roosevelt Hospital treated its first patient in 1871. It contains 535 beds and bassinets. There are about 180,000 outpatient and emergency-room visits annually. Approximately 19,000 patients are admitted to this hospital yearly. The hospital is engaged in many research and teaching activities. A new research building containing 52,000 square feet of laboratory space for all departments was opened in 1973. The medical library contains 26 ,000 volumes and subscribes to 540 medical and technical journals. The hospital is actively engaged in community programs, as represented by its Children and Youth Program and by its Drug Addiction and Alcoholism Programs and many other outreach and community services sponsored by the Departments of Pediatrics, Psychiatry, and Medicine, and the ambulatory care division. The hospital's new emergency room treats over 51,000 people yearly.

New York State Psychiatric Institute

The institute is the oldest psychiatric research institute in the United States. It was built and is maintained by the New York State Office of Mental Health. Through a contractual arrangement, it is affiliated with the College of Physicians and Surgeons. The Institute's functions are to do research into the causes and treatment of psychiatric illness, to provide education for mental health professionals, and to provide the highest quality of clinical care for patients with psychiatric disorders. The Institute currently maintains 25 major research departments, a research hospital, and a wide variety of specialized outpatient departments which provide diagnostic and treatment programs.

Admission, Registration, Expenses, and Financial Aid

Entering classes are enrolled in the College in August of each year. The minimum requirement for admission is attendance for three full academic years at an approved college of arts and sciences. Most applicants present four academic years and a bachelor's degree, although these are not required. The composition of our entering classes indicates, however, that only a relatively small number of three-year students have been accepted in the past by our Committee on Admissions.

The college program must have included English, physics, biology, organic chemistry (including at least one semester of laboratory), and some other course in chemistry covering at least one academic year. These requirements have been designated as mandatory not only by our faculty but by various state medical licensure boards as well; accordingly, applicants cannot be excused from them. Students applying for admission must also have taken the Medical College Admission Test within a year of the date of their application. The student may have concentrated in any area—in the natural sciences, social sciences, humanities, or arts—but evidence of a balanced education, as well as demonstrated interest and ability in the natural sciences, is preferred.

Application Procedure

Application for admission must be filed on a special form obtained from the Admissions Office of the Faculty of Medicine. Applications should be submitted as promptly as possible, though they are accepted only for the next incoming class. Application forms are available beginning in June of the year preceding admission, and they must be filed by October 15. The completed form must be accompanied by the application fee of $50. The fee helps to cover the cost of processing the application; it is therefore not returnable and is not credited toward tuition.

Applicants will be notified when their applications have been received. The Committee on Admissions, however, evaluates only completed applications, that is, those for which letters of recommendation have been received, along with MCAT scores and transcripts. Applicants will be notified, also, when their applications have been completed; if such notification is not received within sixty days after the date of the preliminary processing of an application, applicants should make inquiries at the Admissions Office to learn which items have not yet been received. Failure to receive letters of recommendation and transcripts is the most common cause of delay in the completion of applications.

If a personal interview is required in connection with the application, it will be requested only by the Admissions Office.

Selection of Students

The Committee on Admissions devotes months to the task of selecting a class of 148 from a very large number of applicants. Obviously there will be many well-qualified students whom the College will not be able to accept. The Faculty of Medicine recognizes its obligations in the field of medical education and research not only to the local area but to the nation as well. Admission will not be offered to any applicant who has not been interviewed by one of the College's representatives. Impressions from such an interview, as well as scores on the MCAT and academic records, will be considered in selecting individuals for admission. Other selection criteria are listed below.

The Committee places great importance on the fact that the students have learned to think for themselves, to explore, to work hard under their own initiative, to consider alternatives and make decisions, and to develop a desire for a continuous program of self-education. In the selection of students, preference is given to those who, in the opinion of the Committee on Admissions, have shown high achievement in their college education, a mature sense of values, sound motivation, qualities of leadership, and ability to assume responsibility, and to those who have already given evidence that they are qualified to complete all requirements of our curriculum and to graduate as ethical, compassionate, and competent physicians.

The practice of medicine is both a science and an art and, to treat the patient as a whole person, the doctor must be a whole person. Students planning a career in medicine should be motivated toward becoming leaders in medical thinking, rather than technicians, because medical practice is both a private enterprise and a public responsibility. The liberal arts college offers the opportunity to prepare for a happier and more useful life of citizenship. Years of specialization lie ahead in a professional career, but the foundation of all advanced study is a broad liberal education, of which science is a part.

Admission to Advanced Standing

Application for advanced standing is possible for students wishing to transfer into the second- or third-year classes. Transfer into the fourth year is not possible. Students from foreign schools wishing to transfer must apply to the second-, not the third-year class. The only applicants who can be considered for transfer into either the second- or the third-year classes are those who are currently enrolled in an accredited medical school, or else have been so enrolled within one year preceding the time they make application. The number of places available for transfer into both the second- and third-year classes is extremely limited, usually between two and four places for each class; in some years there have been no places available. The deadline for receipt of applications for both classes is April 15.

Admission of Foreign Students

Applicants need not be citizens of this country but preferably should have received their premedical education at an accredited college or university in the United States or Canada. Applications may be submitted by individuals who have been educated elsewhere, but in the past the Committee on Admissions has had great difficulty in finding a satisfactory means of evaluating the caliber of education available in the many colleges and universities throughout the world. Likewise, the Committee will accept applications for admission with advanced standing to this school from individuals who have begun their medical education in schools outside the United States and Canada, but it has been able to admit very few individuals, either to an entering class or with advanced standing, whose previous education has not been obtained in this country or Canada.

Registration

Before attending classes, each student must register in person at the Office of Student Information Services during the registration period listed in the Academic Calendar. The Office of Student Information Services, on the first floor of the Black Building, is open from 9:30 a.m. to 4:30 p.m. Mondays, Thursdays, Fridays; 9:30 a.m. to 6 p.m. Tuesdays; closed Wednesdays.

All students are asked to give Social Security numbers when registering in the University. However, Social Security numbers are required of foreign students *only* when those students will be receiving payment from the University. Foreign students should consult the Office of Foreign Student Services, 208 Lewisohn Hall, for further information. Other students who do not have Social Security numbers should obtain them from their local Social Security offices *well in advance of registration*.

Students who are not citizens of the United States and who need authorization for special billing of tuition and/or fees to foreign institutions, agencies, or sponsors should go to the Foreign Student Adviser with two copies of the sponsorship letter. Special billing authorization is required of students whose bills are to be sent to a third party for payment.

Other Courses

Degree candidates in good standing who are enrolled for a full-time program in the current term may register for one or two courses (except during the summer term) in any division of the University without charge by filing a formal change of program application approved by the

Associate Dean for Student Affairs. These forms are then filed in the Office of Student Information Services (Black Building, Room 141). Consult the Office of Student Information Services for autumn and spring change-of-program dates.

Fees

The following fees, prescribed by statute, are in effect for 1989-1990 and are subject to change at the Discretion of the Trustees.

University charges such as tuition and fees and residence halls and board plans are due and payable in full by the date announced before the beginning of each term. The full amount of any charge may be paid when due without penalty, or payment may be made in installments. If partial payments are made, a **FINANCE CHARGE** is assessed on amounts not paid by the due date on the initial bill received prior to registration and thereafter as indicated on subsequent monthly bills. In either event, however, the student is required to sign a Retail Installment Credit Agreement at the time of registration which sets forth the terms and conditions of payment. All charges must be paid by the end of the term.

It is the policy of the University to withhold diplomas, certificates, and transcripts until all financial obligations have been met. Candidates for graduation are urged to pay their bills in full at least one month prior to graduation.

In the event a diploma, certificate, or transcript is withheld because of an unpaid bill, a student will be **required** to use a certified check, money order, or cash to release any of the aforementioned documents.

Tuition

For the full course in medicine for one academic year (or the equivalent), payable in two installments	$17,080

Health Service and Hospital Insurance Fees

The following fees, prescribed by statute, are subject to change at the discretion of the Trustees. For all full-time students, per year (September 1—August 31)

Health service	$475
Hospital insurance premium	413

The student health service fee contributes to the cost of operating the Student Health Service. The hospital insurance fee pays the annual premium to the Associated Hospital Service of New York. Participation in these programs is compulsory for all full-time students; students who already carry hospital insurance, however, will be charged the health service fee only. Proof of comparable coverage must be shown at the time of registration. Upon payment of additional fees, students can acquire hospital insurance coverage for their dependents and the latter are eligible to receive the benefits of the health service program. Students should consult the Student Health Service for further information on dependent coverage.

The Student Health Service, which holds daily office hours, is on the street level of Bard Haven Tower 1 (60 Haven Avenue).

Application Fees

For admission	$50.00
For late application, or late renewal of application, for a degree	50.00

Late Registration Fees

	Full-Time
During late registration	$ 50.00
After late registration	100.00

Withdrawal and Adjustment of Fees

A student in good academic standing who is not subject to discipline will always be given an honorable dismissal if he or she wishes to withdraw from the University. Withdrawal is defined as the dropping of one's *entire* program in a given semester as opposed to dropping a portion of one's program.

Any student withdrawing must notify the Office of Student Information Services in writing: failure to attend classes or notification of instructors does not constitute formal withdrawal and will result in failing grades in all courses. Any adjustment of the tuition that the student has paid is reckoned from the date on which the Office receives the student's written notification. Application fees, late fees, and special fees are not refundable.

In addition, at a minimum the following amount of tuition will be retained by the University:

Full-Time study	$75.00

After the first five business days following the beginning of each term, the above amount is retained **plus** an additional percentage of the remaining tuition (as indicated in the adjustment schedule below) for each week, or part of a week, that the student remains registered after these dates. The student is considered registered until the date on which written notice of withdrawal is received by the Office of Student Information Services. A student's financial assistance is adjusted to reflect reductions in the student's overall budget. Excess financial aid is restored proportionately to the funds from which it was drawn before a refund is given.

Adjustment Schedule

	Minimum Tuition Retained	*Percentage of Remaining Tuition Retained*
Up to and including dates specified above	$75	0
Following week	75	10
Second following week	75	20
Third following week	75	30
Fourth following week	75	45
Fifth following week	75	60
Sixth following week	75	75
Seventh following week	75	90
Eighth following week	75	100 (no adjustment)

Application or Renewal of Application for Degree

Degrees are awarded three times a year—in October, February, and May. A candidate for any Columbia degree (except the Ph.D. degree) must file an application with the Office of Student Information Services, 630 West 168th Street. The last day to file for an October degree is August 1; for a February degree, December 1; and for a May degree, March 1. (When the application date occurs on a Saturday or Sunday, the deadline becomes the next business day.) Fourth-year students usually apply during their last registration.

If the student fails to earn the degree by the conferral date for which he or she has made application, the student may renew the application for the following conferred date.

Requests for Transcripts

The Family Educational Rights and Privacy Act of 1974 as amended prohibits the release of educational records by institutions without the specific written consent of the student or alumnus. Students or alumni may request copies of their records by writing to the Office of Student Information Services, Columbia University, 141 Black Building, 630 West 168th Street, New York, N.Y. 10032.

There is a charge of $5 for each transcript requested singly, or $5 for the first copy and $1 for each additional copy requested at the same time. There is no charge for intrauniversity copies sent between University offices. Transcript requests are processed in the order received and require five to seven working days for processing. Specific deadlines should be mentioned, and checks accompanying requests should be made payable to Columbia University.

Estimated Expenses

Current educational expenses for a student attending the College during the *first academic year* are as follows:

Tuition	$17,080
Health and Hospitalization	888.00
Books and supplies	725.00
Microscope rental cost and other equipment	600.00

In addition to the educational costs listed above, each first-year student should budget approximately $7,823 to cover housing ($3,843), food ($2,573), clothing, laundry and dry cleaning ($441), and miscellaneous expenses ($966).

There are differences in the length of each academic year, and living and miscellaneous expenses vary. Each year the College Committee on Financial Aid prepares a statement of estimated expenses for students in each year of the medical school curriculum. These statements are given to all financial aid applicants at the time of distribution of the financial aid policy statement.

Microscope, Instruments, and Books

Students are required to have microscopes for courses in the first and second years of medical school. A microscope rental service is operated by the Medical Center Bookstore. For students who wish to purchase a new or used microscope, the faculty recommends a binocular instrument of standard make, complete with carrying case, built-in illuminator, and quadruple nosepiece (4X, 10X, 40X, and 100X oil-immersion objectives).

Students are required to purchase dissection equipment for the first-year course in gross anatomy and instruments for the diagnostic examination of patients.

The books required or recommended for courses of instruction are announced at the beginning of each academic year.

Housing

There are three types of housing available to incoming P&S students: *(a) University Residence Halls*—traditional "dormitory rooms" for single students, *(b) University Real Estate Management Properties*—apartment accommodations owned and operated by the University for married students, and *(c) Off-Campus Housing*—rooms and apartments owned and operated by landlords other than the University and not subject to inspection or approval by the University.

University Residence Halls

All newly accepted single medical students who apply for housing are guaranteed an accommodation in UNIVERSITY RESIDENCE HALLS—Bard Hall. Bard Hall, located at 50 Haven Avenue overlooking Riverside Park and the Hudson River, is an 11-story facility which includes both a residence hall and student commons. The residence hall facility houses 305 students in single rooms. Each room is approximately 10′ x 13′. Many of the rooms are equipped with a sink. There is community shower and bathroom on each floor. The student commons includes a lounge, dining room, laundry, and athletic area. The newly-renovated Bard Athletic Club encompasses a 20-yard swimming pool, three squash courts, an exercise room, Nautilus and Universal equipment, stationary bicycles, rowing machines, lockers, showers, and saunas. The facility is handicapped accessible. Membership for students is free; users must have their I.D. cards validated with an athletic club sticker, obtainable from the Bard Operations desk or the Health Sciences Housing Office.

University Real Estate Management Apartments

All newly accepted married medical students who apply for housing are guaranteed a University Real Estate Management Apartment in Bard-Haven Towers. The Bard-Haven Towers complex includes three thirty-one-story, high-rise apartment towers. Each tower provides one, two, and three bedroom apartment accommodations. One bedroom apartments (line A&F) in Tower I have been reserved for married students. All apartments are unfurnished and include a full kitchen and bath. Gas, electricity, and telephone service are not included. Each building has laundry facilities, elevator service, and doorman service.

Off-Campus Housing

Student who seek Off-Campus Housing may utilize the Off-Campus Housing Inventory maintained in Room 253, Black Building.

Towers Waitlist

Single students who have received University Residence Halls housing in Bard Hall for their first year of medical school may apply for a University Real Estate Management Apartment in Bard-Haven Towers for their second or third year. There is a wait list for this type of housing. Applications for the Tower's Wait List are distributed by the Health Sciences Housing Office in late September.

All housing inquiries should be directed to: The Health Sciences Housing Office, Bard Hall, 50 Haven Avenue, New York, N.Y. 10032.

Disability-Related Services

Students with permanent or temporary disabilities who wish to request special arrangements are urged to notify the School's liaison officer for disability-related services as early as possible: Dr. Linda Lewis, P&S 3–401; (212) 305-3806. To allow adequate time for making such arrangements, please give at least eight weeks' notice before the start of the term involved. For taped texts or special housing arrangements, 3½ months' notice is needed. General questions about services, resources, wheelchair access, or student networking may be directed to Ruth Curtis, Coordinator of Disabled Student Services, 305 Low Memorial Library; (212) 854-6794.

Financial Aid

All financial aid awards are based on demonstrated need. Each applicant for financial aid is required to borrow a sum of money (unit loan) before becoming eligible for scholarships administered by the College. Financial aid awards are intended to supplement, rather than substitute for, the student's resources and parental contributions.

The federal government makes available each year a limited number of one-year full scholarships for first-year students of Exceptional Financial Need (EFN). Funds are allocated to medical schools, who are responsible for selection of EFN recipients. Students need not request consideration for these funds directly. Awards are determined from the information provided on the financial aid application. Continuation of federal funding for this program is uncertain.

Upon acceptance by the College, students receive the financial aid policy statement, loan interest and repayment information, and an application form which must be completed promptly. Students enrolled in the College are informed annually about the policies for the coming academic year and the dates for submission of the financial aid application and loan applications. Further information may be obtained from the Financial Aid Office of the College of Physicians and Surgeons, telephone (212) 305-4100.

Spouses of medical students should consult the personnel offices of the College of Physicians and Surgeons and of the Presbyterian Hospital for information regarding employment opportunities at the Medical Center.

Scholarships

Students are urged to determine the availability of scholarship assistance from the states in which they reside and to make application for such funds when appropriate. As an example, New York State provides funds through the Tuition Assistance Program to residents who meet financial qualifications. In addition, New York State offers the New York Regents Health Care Scholarships for Medicine and Dentistry. Awards will go up to $10,000 per year. Applicants must be legal residents of New York State for one year prior to applying and be enrolled in a medical school or be candidates for admission to a medical school. Applicants must agree to practice medicine in an area of New York State designated as a shortage area. Awards will be made to eligible candidates in the following order of priority: (1) Candidate is economically disadvantaged and a minority group member historically under-represented in the profession, (2) Candidate is a minority group member under-represented in the profession, and (3) Candidate completed undergraduate work through assistance from the HEOP, EOP, SEEK, or College Discovery opportunity programs. Applications and instructions may be obtained from:
Loan Forgiveness and Professional Opportunity Scholarship Programs
Bureau of Higher and Professional Educational Testing
Cultural Education Center, Room 5C64
Empire State Plaza
Albany, New York 11230
(518) 474-6394

Applicants to medical school should also consult college premedical offices for information on the competitive New York State Regents Scholarships for Professional Study of Medicine. Applications are due between the October and February prior to matriculation. Students should be advised that these deadlines are strictly adhered to.

Among nongovernmental sources of funding there is the National Medical Fellowships, Inc., which awards fellowships to needy black Americans, American Indians, Mexican-Americans, and mainland Puerto Ricans. Applicants must be citizens of the United States. Awards are given to first- and second-year medical students. Enrolled medical students should apply to NMF at 254 West 31st Street, New York, N.Y. 10001 before March 1 for financial assistance for the second year of medical school. Applicants to medical school should request information from NMF.

The R.G. Haddad Foundation Scholarship is available for enrolled medical students who are United States citizens of Syrian or Lebanese descent. Applicants must have verified financial need. A grant for one year may be renewed upon application. The Financial Aid Office of the College of Physicians and Surgeons advises students of the availability of this scholarship annually.

There are a number of scholarship funds administered by the Financial Aid Office of the College. With the exception of the Lawrence John Durante Scholarship (see below), students do not apply directly for these scholarships. The named scholarships listed below have been donated by alumni, foundations, corporations, and friends of the University and are awarded to qualified students by the Financial Aid Office. Students are assured consideration for these funds by applying regularly for financial aid.

Tax Withholding for Nonresident Alien Scholarship and Fellowship Recipients

United States tax law requires the University to withhold tax at the rate of 14 percent on scholarship and fellowship grants paid to nonresident aliens which exceed the cost of tuition, books, fees, and related classroom expenses.

Certain countries have entered into tax treaties with the United States which may serve to reduce this rate of withholding. However, even when such a treaty applies, the student and the University must report the full amount of such excess to the Internal Revenue Service. If a student claims tax treaty benefits, he or she must also report this amount to his or her country of residence.

The International Student Office (208 Lewisohn; telephone 212-854-3591) has prepared a packet of tax information which is available to students and is revised annually. The tax law is complex and may vary with regard to individual circumstances. Therefore, as the University is not in a position to offer individual tax advice, each student may also wish to consult the consulate of their country of residence or a qualified tax professional.

Endowed Scholarship Funds

ALLEN Gift of Mrs. Vivian B. Allen.

ANONYMOUS Several; awarded annually.

BANBURY From the Banbury Scholarship Fund.

ALICE IDA BERNHEIM '31 AND ABRAHAM PENNER '31 SCHOLARSHIP FUND For tuition.

ISAAC J. AND RENA HENLY BERNHEIM Given by the family in honor of Isaac J. and Rena Henly Berheim.

ELSIE J. BIRTWHISTLE Founded by the will of Morell Birtwhistle, in memory of his wife.

GEORGE BLUMENTHAL, JR. From the George Blumenthal, Jr., Fund.

ELIZABETH ROCK BRACKETT '29 SCHOLARSHIP FUND Bequest of Dr. Brackett, the income to be used for scholarship assistance for women medical students studying under the Faculty of Medicine.

DANIEL NOYES BROWN SCHOLARSHIP FUND Established in honor of Daniel Noyes Brown, P&S '32.

LUCIEN AND ETHEL BROWNSTONE MERIT MEDICAL SCHOLARSHIP FUND A merit scholarship awarded every four years.

DR. MOSES R. BUCHMAN MEMORIAL Open to undergraduate medical students, with preference given to those who are residents of Westchester and who plan to practice pediatrics. Established by friends of Dr. Buchman.

DAVID C. BULL MEMORIAL In memory of Dr. David C. Bull, a former member of the Department of Surgery.

DR. H. GRIFFIN BULLWINKEL '20 AND MRS. LOLA LENHART BULLWINKEL FUND Given by Mrs. Bullwinkel in memory of her husband, Columbia College Class of 1917, P&S Class of 1920.

RICHARD BUTLER Open to men born in the state of Ohio who are qualified for admission to, and plan to enter, Columbia College, the Graduate School of Arts and Sciences, the School of Law, the School of Engineering and Applied Science, or the College of Physicians and Surgeons.

LISLE C. CARTER SCHOLARSHIP FUND Establishing through the generosity of the Emilie H. Siebert Trust, for disadvantaged minority students.

CHEEK (DR. JOANNE LLOYD-JONES) SCHOLARSHIP FUND Gift of Mrs. Arthur Rudd. Established in 1987.

ALONZO CLARK 1835 Founded by the will of Alonzo Clark, M.D., LL.D., for many years president of the College of Physicians and Surgeons.

CLASS OF 1890 Given by a member of the class.

CLASS OF 1899 Given by the class in commemoration of the thirty-fifth anniversary of its graduation.

CLASS OF 1912 Given by the class on the fifteenth anniversary of its graduation.

CLASS OF 1913 For medical student scholarships

CLASS OF 1920 Given by the class on the twenty-fifth anniversary of its graduation.

CLASS OF 1924 To commemorate the fiftieth anniversary of their graduation.

CLASS OF 1928 Given at their tenth reunion.

CLASS OF 1932 For a scholarship room. Given by the class on the twenty-fifth anniversary of its graduation.

CLASS OF 1933 For a scholarship.

CLASS OF 1934 Awarded for medical student scholarships.

CLASS OF 1936 Given by the class on the twenty-fifth anniversary of its graduation.

CLASS OF 1937 Awarded for tuition of medical students.

CLASS OF 1938 Awarded annually to assist a student in the College of Physicians and Surgeons.

CLASS OF 1939 Awarded for medical student scholarships.

CLASS OF 1940 Awarded for medical student scholarships.

CLASS OF 1942 Awarded for medical student scholarships.

CLASS OF 1952 Given by members of the class on the tenth anniversary of its graduation.

CLASS OF 1953 Given by members of the class.

CLASS OF 1954 Given by members of the class.

CLASS OF 1964 Established in memory of Dr. Howard Gerstel.

CLASS OF 1965 Given by members of the class.

HENRY D. CRUGER Request of Helen Cruger, in memory of the Henry D. Cruger family.

CHARLES A. DANA FOUNDATION, Inc. Established by the Foundation.

ANTHONY M. DeANGELIS '34 Open to a student of the fourth-year class. Given by Dr. Anthony M. DeAngelis.

HORACE DENNETT Open to students in the third- and fourth-year classes.

DR. HERBERT JACKSON DESHON '30 SCHOLARSHIP FUND Established by bequest of Dr. DeShon, P&S '30.

DAVID M. DEVENDORF 1861 Preference is given to a candidate from Herkimer County, New York, preferably one from the town of Herkimer. Given by Mrs. David M. Devendorf of Herkimer, New York, in memory of her husband, Dr. David M. Devendorf, Class of 1861.

MORRIS DINNERSTEIN '18 SCHOLARSHIP FUND

FRANCIS E. DOUGHTY 1869 Given by Miss Phoebe Caroline Swords, in memory of Dr. Francis E. Doughty, Class of 1869.

LAWRENCE JOHN DURANTE '61 Given by members of the Class of 1961, in memory of Lawrence John Durante. Awarded annually to a senior student with verified financial need by the Durante Scholarship Fund Committee after review of the applications of qualified students.

EDWARD PERCY EGLEE '13 Bequest of Edward Percy Eglee, Class of 1913, member of the Faculty of the College of Physicians and Surgeons from 1919 until his retirement in 1953, when he was a clinical professor of medicine.

JOSEPH HERMAN AND HANNAH EICHNER Established by the will of Benjamin Bernard Eichner, Class of 1919.

JOSEPH C. FOSTER Given by Mrs. Esther J. Foster, in memory of her husband.

VIRGINIA KNEELAND FRANTZ '22 Bequest of Dr. Frantz.

NELLIE ALDEN FRANZ Bequest of Nellie A. Franz to Columbia University for scholarships to worthy young women for undergraduate or graduate study, with preference for those interested in medicine, nursing, sociology, and journalism.

JOSEPH H. FRIES '29 MEMORIAL SCHOLARSHIP

DAVID GABERMAN '20 SCHOLARSHIP FUND

ARTHUR AND CORNELIA GANS SCHOLARSHIP FUND Bequest of Cornelia Gans to the College of Physicians and Surgeons to provide scholarships for needy and worthy students of American or Dutch nationality.

GEORGE AND CHARLIE Given by the Alumni Association of the College, in memory of George Peters and Charles Costello, long-time employees of the Medical Center.

ROBERT I. GRAUSMAN '21 SCHOLARSHIP FUND Established by Grausman, P&S '21, and continued in his memory by family and friends.

JACOB HARSEN Given by Dr. Jacob Harsen.

FRANK HARTLEY 1880 Given by friends and colleagues of Dr. Frank Hartley, class of 1880.

HELEN HAYES Established by the College of Physicians and Surgeons to honor Miss Hayes for her four decades of service and devotion to the Helen Hayes Hospital, a New York State-owned Columbia affiliate.

HAROLD HELM Established by the College to honor Mr. Helm, for his statesmentship and leadership as a chairman of the Medi/Center I campaign and for all his efforts on behalf of the University.

WILLIAM H. HEMINGWAY

JEAN HENDERSON '21 MEMORIAL SCHOLARSHIP FUND

AARON HIMMELSTEIN MEMORIAL Open to undergraduate medical students. Given by Dr. Himmelstein's friends and colleagues.

IRMA T. HIRSCHL SCHOLARSHIPS From the estate of Irma T. Hirschl. Awarded on the criteria of financial need, outstanding scholarship and dedication to medical science, the easing of pain and protection of life.

JAMES W. JAMESON '05 SCHOLARSHIP FUND

MADAME LEIN-SUN HO SCHOLARSHIP FUND Established by Dr. Karen K. Fu, P&S '67, in memory of her mother.

CHARLES EUGENE HUBER, SR. 1896 Bequest of Francis D. Huber, Class of 1928, in memory of his father.

FRANCIS HUBER '28 Open to a graduate of any institution other than Columbia University, City College, Barnard College, or Hunter College. Given by Dr. Francis Huber, Class of 1928.

VIOLA B. HUBER Open to a graduate of Hunter College. Given by Dr. Francis Huber.

ABRAHAM JACOBI For graduates of Columbia University and City College. Given by Dr. Francis Huber, in memory of Dr. Abraham Jacobi.

EDWARD R. JEAL Awarded to deserving students under the Faculty of Medicine.

CHARLES CHRISTIAN LIEB '06 Awarded to a student interested in the study of pharmacology. Given in memory of Dr. Charles Christian Lieb, Hosack Professor of Pharmacology.

LI MING Awarded with preference to students of Chinese birth or descent or nationality. Established by bequest of Mr. Li Ming.

MARJORIE McANENY Open to a graduate of Barnard College. Given by Dr. Francis Huber, Class of 1928.

ELIZABETH HALL McCULLOGH '33 Given by Mrs. William G. Heaphy, in memory of her sister, Dr. Elizabeth McCullogh, an alumna of the College of Physicians and Surgeons, Class of 1933.

MALCOLM X SCHOLARSHIP FUND Established by the College of Physicians and Surgeons to help further the education of black students interested in medical and public health problems prevalent in black communities.

HERBERT D. MANLEY '07 Given as bequest by the late Dr. Herbert D. Manley.

FRANCIS HARTMAN MARKOE Given by Madeline Shelton Markoe, in memory of her husband.

M. MONTGOMERY MAZE From the estate of M. Montgomery Maze, Pearl River, N.Y. Part of this fund may be used for scholarships and/or fellowships, preferably for graduates of the Pearl River High School.

MABEL C. MEAD Awarded to women students of Chinese ancestry. Preference given to those desiring to study medicine.

VIVIAN AND SEYMOUR MILSTEIN ENDOWMENT FOR SCHOLARSHIPS Established by the donors in honor of their friends and physicians, Drs. David Habif '39 and Duane Todd '52.

SAMUEL J. MORITZ MEMORIAL Given by the executors of the estate of Samuel J. Moritz.

GULLI LINDH MULLER '21 Bequest of the donor to be awarded with preference to a gifted woman student.

P&S SCHOLARSHIP AID AND LOAN FUND Established by the wives of the members of the Faculty of Medicine, faculty, and friends of the College.

RUDOLPH AND MARY E. PFEIFFER Given by Mrs. Mary E. Pfeiffer.

TOUSSIA AND KERMIT PINES '42 SCHOLARSHIP FUND Endowed by Florence and Herbert Irving.

PRESBYTERIAN HOSPITAL ALUMNI SCHOLARSHIP Granted with preference to sons or daughters of alumni of Presbyterian Hospital. Given by the Society of the Alumni of Presbyterian Hospital.

WILLIAM COLE RAPPLEYE Established at the retirement of Dean Rappleye.

RICHARD RHODEBECK Given by Mrs. Richard Rhodebeck, in memory of her husband.

JAMES RODISH MEMORIAL SCHOLARSHIP Established by family and friends in memory of James Rodish, to be awarded in alternate years to a student in the School of Nursing and a student in the College of Physicians and Surgeons.

DAVID H. ROUS From family, friends, and business associates of David H. Rous, the income to be divided equally among the Graduate School of Business, Columbia College, and the College of Physicians and Surgeons.

LOUIS AND RACHAEL RUDIN Established by the Rudin Foundation for students of excellence who would not otherwise be able to complete their education.

SAGAMORE Awarded to needy students.

JOSEPH E. SAPHIR '02 MEMORIAL Given by Elsa M. Saphir, in memory of her husband, Joseph F. Saphir, Class of 1902.

THE MARY S. SAXE SCHOLARSHIP FUND Bequest of Mary S. Saxe.

AURA E. SEVERINGHAUS Given by faculty members, alumni, and students, in honor of Dr. Severinghaus' services to the College.

BERNARD E. SMITH MEMORIAL Given by Mrs. Gertrude Smith, in memory of her husband.

THE JAMES A. STEVENSON '43 MEMORIAL SCHOLARSHIP Established by Mrs. Ann Stevenson Hardesty, in memory of her brother James Albert Stevenson, Class of 1943.

EDGAR EGINTON STEWART, JR., MEMORIAL Given by Dr. E.E. Stewart, Class of 1906, in memory of his son.

ARTHUR PURDY STOUT MEMORIAL Given by the Arthur Purdy Stout Society.

ARNOLD STURMDORF Awarded to one or more students in their third or fourth years of medical school. Bequest of Miriam Sturmdorf.

DAVID TORNBERG '73 SCHOLARSHIP ENDOWMENT FUND

P. ROY VAGELOS '54 AND RANDALL VAGELOS '83 ENDOWMENT SCHOLARSHIP

HAROLD S. VAUGHAN '04 Bequest of Dr. Harold Vaughan, Class of 1904.

ANDREA VICALE MEMORIAL Established by Dr. Carmine T. Vicale, in memory of his father.

HERMANN VOLLMER Established in his memory by his wife.

THEODORE L. VOSSELER Preference is given to graduates of Colgate University. Given by Dr. Allison J. Vosseler, Class of 1933, in memory of his father, Dr. Theodore L. Vosseler.

ROBERT M. WECHSLER '45 Given by Dr. I.S. Wechsler, in memory of his son, Robert M. Wechsler, Class of 1945, and by members of the Class of 1945, in memory of their classmate.

WHITING—Dr. FORDYCE B. St. JOHN '09 SCHOLARSHIP FUND Gift by the Mrs. Giles Whiting Foundation, in honor of Dr. Fordyce B. St. John.

DR. JAMES LANCELOT WILSON '16 Awarded to a student selected by the College of Physicians and Surgeons.

LYDIA AND DAVID WOLF SCHOLARSHIP FUND Given by Mr. and Mrs. Wolf to support a needy student of high academic standing and promise.

JOHN C. WOOD, JR. '76 MEMORIAL Established by family and friends in memory of Dr. Wood, Class of 1976.

WORTHAM '43 (MARION H. AND EDWIN III) MEMORIAL SCHOLARSHIP FUND

Gift Funds

ANONYMOUS SCHOLARSHIP '65

BALSO P&S ALUMNI SCHOLARSHIP

JOANNE LLOYD-JONES CHEEK '53 SCHOLARSHIP

CLASS OF 1958 SCHOLARSHIP

CLASS OF 1959 SCHOLARSHIP

VALERIE AND GEORGE DELACORTE FOUNDATION Annual gift.

GENERAL SCHOLARSHIP GIFT FUND Gifts and memorials by various donors.

HARLOW KEITH HAMMOND TRUST SCHOLARSHIP FUND

CHARLES F. IKLE SCHOLARSHIP AND RESEARCH FUND Grant by the New York Community Trust.

JAMES T. LEE FOUNDATION, Inc. Annual grant to medical students.

RICHARD P. NESTI '61 SCHOLARSHIP

P&S ALUMNI SCHOLARSHIP

AURA E. SEVERINGHAUS Established by the Clark Foundation as an unrestricted, discretionary fund to be used primarily for the support of students and student activites. Priority given to fourth-year students who are subjected to increased living and transportation costs because of electing clerkships at the Mary Imogene Bassett Hospital, Cooperstown, N.Y.

JULIUS E. STOLI MEDICAL EDUCATION AND RESEARCH FUND SCHOLARSHIP

THE SULZBERGER FOUNDATION Annual gift by Judith Sulzberger '49. Awarded to senior students with very good academic records, significant financial need, and plans to pursue careers in family medicine or general internal medicine in nonurban areas.

THORNTON SCHOLARSHIP

UNITED DOCTORS OF HARLEM HOSPITAL Annual gift awarded to entering minority students from the metropolitan area.

RALPH J. VEENEMA SCHOLARSHIP

Loans

Loans are available to all full-time medical students. These funds are provided by various sources, including the federal and state governments, the University, and also private agencies, as outlined below.

Foreign students who hold an F-1 student visa are eligible to borrow only from University funds and must have comakers who are citizens or permanent residents of the United States. Comakers should not be University employees. Foreign students may borrow from federal or state loan funds upon being granted permanent resident visa status in the United States.

Health Professions Student Loans. Funds were originally allocated by the Bureau of Health Manpower of the Department of Health and Human Services to individual medical schools, which are responsible for determining both the recipients of such funds and the amounts to be loaned. Assuming the availability of adequate funding, the maximum loan to a student in an academic year is the cost of tuition plus $2,500. Loans are repayable to the school over a ten-year period beginning one year after completing or interrupting the prescribed full-time course of study. Interest at the annual rate of 5 percent begins to accrue when the loan becomes repayable.

Repayment of Health Professions Loans may be *deferred* up to three years for those who become members of a uniformed federal service on sustained full-time duty (i.e., the Army, Navy, Air Force, Marine Corps, Coast Guard, Coast and Geodetic Survey), the Public Health Service, or the Peace Corps. For those pursuing advanced professional training, repayment may be deferred to completion of the training program, except for a cap of two years' deferment during a Fellowship. Interest does not accrue during period of deferment.

Health Professions Loans are *forgiven* or *cancelled* under certain conditions: (1) In the instance of students who agree to practice medicine for at least two years in a region of a state that has been determined to need additional personnel, the federal government will repay 60 percent of the outstanding principal and interest on any educational loan(s) for the cost of professional education. For a third year of practice in such an area, an additional 25 percent of the loan(s) will be repaid. (2) The outstanding loans of students who fail to complete their health professions studies will be repaid if they are in exceptionally needy circumstances, from a low-income or disadvantaged family, and cannot be expected to resume studies within two years. (3) Loans of students who die or suffer permanent and total disability will be cancelled. Repayment of loans for service in shortage areas is subject to annual allocation of funds from the federal government.

Perkins Loans. Funds are allocated by the Department of Education to schools which are responsible for determining both the recipients of such funds and the amounts to be awarded. The total (undergraduate and graduate school loans) available to a student from the program is $18,000. The current interest rate, payable during the repayment period, is 5 percent on the unpaid principal. Repayment begins six months after graduation or after leaving school. The repayment period may extend up to ten years. Repayment may be deferred for up to three years during active U.S. military service, during service in the Peace Corps or Volunteers in Service to America (VISTA), during service in the National Health Service Corps, or for up to two years during service in an internship required to begin professional practice.

Stafford Loans. Under the auspices of the Office of Student Financial Assistance of the Department of Education, federally insured loans are available to students with demonstrated financial need. The loans are made by authorized banks, savings-and-loan associations, credit unions, pension funds, and insurance companies. The maximum loan each academic year under this program is $7,500, and the total outstanding loan balance at any one time may not exceed $54,750. Lending institutions participating in this program can provide information regarding interest rates, repayment, and deferment of repayment.

Supplemental Loan for Students is a federally insured loan program available to graduate students, who may borrow up to $4,000 a year at a variable rate of interest, with a cap of 12 percent. In 1988–89, the interest rate was 12 percent. Repayment of the principal is deferred while students are in school full time, but interest payments must be made while enrolled. Since authorized

deferments are the same as those for the guaranteed student loan program, a student may continue to pay interest until able to be licensed to practice medicine, beginning repayment of both principal and interest following that period. The aggregate indebtedness for graduate students is $20,000 under this program. This loan must be taken at the same bank as the GSL if a student borrows a GSL in New York State. This rule may also apply in other states. Students who are not New York State residents should be able to make an SLS loan at a bank in New York if they are unable to borrow from their local lender.

Health Education Assistance Loans. HEAL is a federally insured loan program available to students in the health professions. Currently, all HEAL lenders use a promissory note with a variable interest rate. The rate is reassessed quarterly and is calculated by taking the interest rate on the ninety-one day Treasury Bill plus an additional 3 percent. Interest on this loan begins to accrue immediately. There is a nine-month grace period after graduation. However, if the borrower becomes an intern or resident in an accredited program before that date, repayment will begin from nine to twelve months after the borrower ceases to be an intern or resident. Certain HEAL loan programs offer better interest rates and do not compound while the student is in school. Please contact the Financial Aid Office about these loans.

P&S Dean's Loan. The Dean's loan fund is a program established by the College to offset the burden of high interest loans to students with a high degree of demonstrated financial need. The interest rate is 9 percent and does not accrue while the student is in school or postgraduate training.

University loan finds are also intended to supplement students' resources when monies are available. Included among these are the following funds:

PETER AMAZON '21 Bequest of Peter Amazon.

LEONARD ALEXANDER ARMS Bequest of Lydia B. Arms, in memory of her husband, to create a revolving loan fund for scholarship and research to medical students and graduate students at P&S.

GEORGE BLUMENTHAL, JR. Used for the assistance of needy students in the medical school.

DR. HARRY BRITENSTOOL '01 MEMORIAL From the estate of Mrs. Blanche B. Ostheimer, in memory of her brother.

CLASS OF 1906 Gifts from various members of the Class of 1906.

CLASS OF 1919 Gifts from various members of the Class of 1919. To be used for loans to deserving students.

CAROL ELISSA GARDNER '41 Established by Dr. M. Jordan Thorstad, in memory of his wife, Dr. Carol Elissa Gardner Thorstad, Class of 1941.

DAVID GREENE A bequest from the state of Fannye Greene Meyerson, in honor of her brother, Dr. David Greene. Used for assistance of needy students in the medical school and Columbia College.

GEORGE L. HAWKINS, Jr. '41 Gift of George L. Hawkins, Jr., Class of 1941.

B. H. HOMAN, JR., REVOLVING LOAN FUND Long-term, low-interest loans for needy students.

WILLIAM AND ROSE KEYBURTZ SCHOLARSHIP FUND Established by bequest of Dr. Orland L. Keyburtz in honor of his parents.

ROBERT ABBE MACKENZIE '21 Established by friends, colleagues, and patients of Dr. MacKenzie, an alumnus of the Class of 1921.

GEORGE W. MERCK MEMORIAL Established by the Merck Company Foundation in honor of George W. Merck. For graduates of P&S who need to move more than 300 miles from New York City for their residency training.

HENRY NIAS FOUNDATION LOAN FUND Gift of Stanley Edelman, Class of 1953.

JESSIE SMITH NOYES

P&S SCHOLARSHIP AND LOAN ENDOWMENT FUND Given by P&S alumni.

WALTER C. AND MAJORIE C. STEIN Bequest of Marjorie C. Stein.

STEINHARDT MEDICAL SCHOLARSHIP Bequest of Samuel C. Steinhardt. Awarded to graduates of one of the colleges of the City University of New York who have attended public schools exclusively (except for religious instruction). To be repaid in fifteen years; without interest for the first ten years; with 5 percent annual interest thereafter on the unpaid balance.

MRS. AND DR. CLYDE WU, P&S '56 STUDENT LOAN ENDOWMENT

In addition to the foregoing, periodically there are funds for short-term emergency loans, which are administered through the Financial Aid Office of the medical school.

Prizes

Dr. HARRY S. ALTMAN PRIZE Awarded to an outstanding senior student who demonstrates a special interest in pediatric ambulatory care. Established to honor Dr. Harry S. Altman, in recognition of his outstanding contributions to scholarship in pediatrics.

ALUMNI ASSOCIATION AWARD Given for outstanding achievement.

VIRGINIA P. APGAR '33 AWARD Awarded to an outstanding graduate student for excellence in completing an advanced course in anesthesiology and intensive care. Established by the Department of Anesthesiology in honor of Virginia P. Apgar, Class of 1933.

MICHAEL H. ARANOW AWARD Awarded to the student who exemplifies the caring and humane qualities of the practicing physician.

HERBERT J. BARTELSTONE AWARD IN PHARMACOLOGY Awarded to a member of the graduating class of the College who has demonstrated exceptional accomplishments in pharmacology. Established to honor the memory of Professor Herbert J. Bartelstone, member of the Department of Pharmacology from 1950 until 1973, dedicated and inspiring teacher, and uncompromising advocate of the importance of rigorous preparation in basic medical science in the education of the physician.

ALVIN BEHRENS MEMORIAL FUND AWARD of the Phi Lambda Medical Fraternity Given to an able student planning a career in ophthalmology.

COAKLEY MEMORIAL PRIZE Awarded by the Department of Otolaryngology to a senior student who has done outstanding work in the field.

TITUS MUNSON COAN PRIZE Awarded to the senior student who has submitted the best essay in biological science or otherwise best contributed to its advancement. Bequest of Titus M. Coan.

THOMAS F. COCK, M.D., PRIZE Awarded to a senior student for excellence in obstetrics and gynecology.

FREDERICK PARKER GAY MEMORIAL AWARD Awarded to the senior student whose work in microbiology is judged the most outstanding. Given by Mrs. Frederick Parker Gay, in memory of her husband.

LOUIS GIBOFSKY MEMORIAL PRIZE Awarded to a senior student who submits the best research paper in nephrology, dialysis, transplantation, or immunobiology. The award is in memory of Louis Gibofsky.

THE DOCTOR CHARLES E. HAMILTON '81 AWARD Established by Mr. Andrew L. Giffuni to honor Dr. Hamilton, P&S Class of 1918, for excellence in pulmonary diseases.

JANEWAY '27 PRIZE Awarded to the student graduating from the College with the highest marks for efficiency and ability. Given by the bequest of Matilda S. J. Wisner.

Dr. HAROLD LAMPORT '34 BIOMEDICAL RESEARCH PRIZE Awarded to a senior student for the best thesis reporting original biomedical research. Gift of the Lamport Foundation.

JOHN K. LATTIMER PRIZE IN UROLOGY Awarded to senior students for the best essays on urological subjects.

LEMMON COMPANY STUDENT AWARD Given to a graduating student who has excelled in the study of obstetrics and gynecology or family practice.

ROBERT F. LOEB AWARD Awarded to a senior student who, in the opinion of the Department of Medicine, has shown the greatest promise of excellence in clinical medicine. Established in memory of Dr. Robert F. Loeb, Bard Professor of Medicine, and chairman of the Department of Medicine from 1947 to 1959.

F. PHILIP LOWENFISH PRIZE IN DERMATOLOGY Awarded to the individual who has done the most creative and original research in dermatology. Given by Mrs. Lowenfish, in her husband's memory.

ADMIRAL DAVID WILLARD LYON AWARD Awarded to a senior student on a military scholarship for outstanding academic achievement. Established by Dr. Edgar Housepian, Class of 1953, and Mrs. David Willard Lyon in Memory of Admiral Lyon.

DOCTOR CECIL G. MARQUEZ BALSO STUDENT AWARD FOR EXCELLENCE Awarded to a graduating minority medical student for his/her outstanding contribution to the Black and Latin Student Organization and the minority communities.

EDITH AND DENTON McKANE MEMORIAL AWARD Bequest of Edith U. McKane. Awarded to a senior student for excellence in basic or clinical research in ophthalmology.

Dr. HAROLD LEE MEIERHOF '17 MEMORIAL AWARD Awarded on recommendation of the professor of pathology to the student who has done the best work in the field during the four years of medical school. Given by the parents of Dr. Harold Lee Mierhof, Class of 1917.

MARIE NERCESSIAN MEMORIAL AWARD Gift of Ohannes Nercessian, Class of 1981. Awarded to a senior medical student (preferably of Armenian descent) who has shown care, unusual concern, and dedication to helping sick people.

NEW YORK ORTHOPEDIC HOSPITAL AWARD An annual prize awarded to a senior student upon nomination by the Department of Orthopedic Surgery, for outstanding performance in the field.

JOSEPH GARRISON PARKER '48 AWARD Awarded to the senior in the College who best exemplifies, through a continued personal interest and activities in art, music, literature, or the public interest, the fact that Living and Learning go on together. Given by Dr. and Mrs. Philip Parker, in memory of their son, Joseph, Class of 1948, whose promising career in medicine was cut short by death in 1953, but in whose life the love of music and the arts was a constant source of inspiration.

P&S CLASS OF 1924, Dr. ALLEN O. WHIPPLE MEMORIAL PRIZE Awarded to a senior student, upon nomination of the Department of Surgery, for outstanding performance in the field.

DEPARTMENT OF PSYCHIATRY PRIZE Awarded by the Department of Psychiatry to a second-year student for the best work in psychopathology.

PUBLIC HEALTH AMBULATORY CARE AWARD Awarded by the School of Public Health to a senior student for an excellent public health project.

SAMUEL W. ROVER AND LEWIS ROVER AWARD IN ANATOMY AND CELL BIOLOGY An annual prize to be awarded to a graduating medical student or graduate student for scholarship and outstanding achievement in research in anatomy and cell biology.

SAMUEL W. ROVER AND LEWIS ROVER AWARD IN BIOCHEMISTRY An annual prize to be awarded to a graduating medical student or a male graduate student for scholarship and outstanding achievement in biochemistry at the College of Physicians and Surgeons.

THE SAMUEL W. ROVER AND LEWIS AWARD IN GENETICS AND DEVELOPMENT An annual award to a graduating student or graduate student, who in scholarship and proficiency achieves the greatest distinction in genetics and development.

SAMUEL W. ROVER AND LEWIS ROVER AWARD IN PHYSIOLOGY An annual prize to be awarded to a graduating medical student or graduate student for scholarship and outstanding achievement in research in physiology.

ANN RYAN PRIZE IN BIOCHEMISTRY To be awarded to deserving women graduate students.

THE SANDOZ AWARD Awarded to a graduating student for excellence in research.

THE REBECCA A. SCHWARTZ MEMORIAL PRIZE Given by Dr. and Mrs. Stephen Schwartz, Class of 1937, in memory of their daughter, to be awarded to an outstanding student on a pediatric cardiology elective.

HELEN M. SCIARRA PRIZE Awarded to a senior student in the College for outstanding work in neurology.

THE MIRIAM BERKMAN SPOTNITZ PRIZE Given by Dr. Hyman Spotnitz '39 in memory of Mrs. Spotnitz for outstanding research in the field of oncology.

Dr. ALFRED STEINER '38 AWARD Presented annually to one or more students chosen by a faculty committee on the basis of achievement in medical research. Funded by Harcourt Brace Jovanovich in honor of Dr. Steiner.

Dr. HAROLD B. STEVELMAN '58 AWARD Awarded to a senior student for excellence in adult cardiology. In honor of Dr. Harold Stevelman, Class of 1958, in appreciation of his service to the family of Mr. and Mrs. Leo Gilbert. Gift of Mr. and Mrs. Leo Gilbert.

UPJOHN ACHIEVEMENT AWARD For excellence in research by a graduating student.

Dr. WILLIAM PERRY WATSON PRIZE IN PEDIATRICS Awarded on the nomination of the professor of pediatrics to that member of the graduating class of the College who has shown the most notable work in the study of diseases of infants and children.

Dr. WILLIAM RAYNER WATSON AWARD Awarded to that member of the graduating class who has done the most outstanding work in psychiatry during the four years of attendance at the College of Physicians and Surgeons.

SIGMUND L. WILENS PRIZE Awarded to a member of the graduating class who, in the opinion of the Department of Pathology, has been distinguished by special excellence in pathology. Gift of Dr. Marie Renate Dische Wilens, Class of 1957, in memory of her husband, Dr. Sigmund L. Wilens.

Student and Alumni Activities

All students enrolled by the College enjoy the privileges and facilities of the University campus, including the University libraries.

P&S Club

The P&S Club was founded over eighty years ago by John R. Mott, who later won the Nobel Peace Prize. The Club is the most active and comprehensive student organization in American medical education today. All matriculated students in the College of Physicians and Surgeons are members, eligible to participate in extracurricular activities of their choice. Under the guidance of the Faculty Advisory Board, the student cabinet, led by the president, assumes the entire responsibility for management of the Club. The cabinet consists of four elected members from each class and those who chair the following committees: Orientation, Handbook, Student-Faculty Home Visits, Films, Concerts, Choral Society, Bard Hall Players, Outing Club, Winetasters, Athletics, Community Youth Work, Accessories, Social, and Columbia-Presbyterian Medical Society.

Alpha Omega Alpha Honor Medical Society

A chapter of Alpha Omega Alpha, the national honor medical society, was founded at the College of Physicians and Surgeons in 1907. Students are elected to membership in the senior year by a committee of the faculty appointed by the Dean. The committee is chaired by the Alpha Omega Alpha Councilor of the College of Physicians and Surgeons. Student membership is determined according to the constitution of the national society. Election is limited to those whose scholastic qualifications place them in the upper 25 percent of the class. The number of student members elected from any class may not exceed one-sixth of the number expected to graduate in that class. Although scholastic excellence is required for membership, integrity, capacity for leadership, compassion, and fairness in dealing with one's colleagues are judged to be of equal significance.

P&S Alumni Association

The P&S Alumni Association serves to foster and maintain cordial relationships between the College of Physicians and Surgeons and its alumni. Liaison with the College is facilitated through the office of the Assistant Dean for Alumni Affairs.

Regular members of the Alumni Association include all those awarded the M.D. or Med.Sc.D. degrees from the College, as well as all Ph.D. graduates of the basic sciences curricula at P&S and those awarded the Certificate in Psychoanalytic Medicine. Associate members include faculty members of the College, all house staff members and visiting fellows at hospitals affiliated with P&S.

The work of the Alumni Association is accomplished through the efforts of its officers and members of the fifteen standing and *ad hoc* committees, all of whom form the constituency of the P&S Alumni Council. Among the important functions of the Association is participation in the publication of P&S, a magazine that is cosponsored by the alumni and the medical school and serves as a major form of communication between the school and its alumni, faculty, students and their parents, and other friends and associates of the College.

Restricted revenues raised by the Alumni Association provide funds for the student dormitory and scholarships at the College of Physicians and Surgeons. Unrestricted revenues allow the College flexibility in applying funds to areas of greatest need. Traditionally, a substantial stipend from unrestricted revenues goes to the P&S Club as well as to scholarship aid.

As future alumni, students play an important role in the work and deliberations of the Alumni Association. Through their membership on the Student-Alumni Relations Committee, students and alumni work together in addressing students' needs and concerns.

Information about the Alumni Association and its activities is available from the P&S Alumni Relations Office, 2005-C Black Building, 630 West 168th Street, New York, N.Y. 10032. Telephone (212) 305-3498.

The Program of Instruction

The first-year curriculum is largely devoted to basic science courses with correlation clinics to demonstrate the application of scientific information to the practice of medicine. The first-year student also studies the impact of health care systems in our current society on the individual patient and physician. Second-year courses concentrate on the clinical relevance of basic science concepts as the bridging process to clinical instruction begins. Correlations between pathology and pathophysiology are emphasized. The development of basic clinical skills begins in the second semester and culminates in a four-week clerkship. Throughout both preclinical years elective opportunities are available for pursuit of areas of interest.

The major clinical year is devoted exclusively to rotations on clerkships in the clinical disciplines. Under close supervision the students are helped to develop the skills and knowledge required for the practice of clinical medicine. Students learn to elicit a comprehensive history and to carry out a complete physical examination. They learn to develop professional relationships with patients, and they acquire an understanding of the mechanisms of disease and of the principles necessary for valid diagnostic appraisal and effective therapeutic plans.

All courses of the first three years of the curriculum are required of all students. In the fourth year, with the guidance of faculty advisers, students design individual elective curricula, drawn from a wide range of basic scientific electives, clinical electives, and research programs offered by the faculty. Each fourth-year student is required to take a one-month elective in ambulatory care which includes clerkship experience in Public Health/Community Medicine. The elective courses of all departments are described in a catalog which is printed annually and distributed to students and faculty. Students are permitted to spend three months of the curriculum in elective programs offered by other medical schools. In addition, the School of Public Health offers international medicine programs that provide opportunities to study the organization and delivery of health services in many countries of the world.

During the elective curriculum students have available the resources of the entire University. Students are encouraged to utilize elective curriculum time to reach career decisions. Faculty advisers stress the acquisition of knowledge and skills in areas of medicine apart from the student's career discipline, and they encourage students to gain experience in clinical and/or laboratory research.

The College reserves the right to make changes in the program of studies and courses of instruction at any time.

Grades, Promotions, and Leaves of Absence

All courses are rated on an Honors-Pass-Fail system and these ratings only are recorded on the official transcripts. Students are not ranked within the class. Faculty provide narrative descriptions of student performances in preclinical courses (*Abnormal Human Biology, Introduction to the Patient,* and *Psychiatric Medicine I and II*), major clinical year clerkships, and elective programs. These evaluations become part of the student's permanent academic record in the Office of the Dean.

There are three standing faculty committees concerned with students' academic performances. These committees are: The First Year Class Faculty, the Second Year Class Faculty, and the Clinical Committee. The latter deals with academic performances in the major clinical year and the elective curriculum. The standing committees meet during each academic year to review student performances and to make decisions related to course failures and to promotions. Course failures in all years of the curriculum must be corrected according to the directives of the faculty committees. A student may be advanced to the next academic year of the medical school curriculum only upon recommendation of the faculty committee. In any year of the curriculum students may be dismissed for poor scholarship. Repetition of a year of the curriculum may be recommended by a faculty committee. The faculty committees may direct students whose performances are marginal to undertake additional work to correct deficiencies and strengthen overall performance in any discipline.

Students are informed in writing of the academic decisions of all faculty committees. Students have the right to appeal decisions of the faculty committees. A student who wishes to appeal may

request the concerned committee to reverse or alter a decision. If the committee reaffirms the original decision, the student may direct an appeal to the Dean of the Faculty of Medicine, who may refer the appeal to the Executive Committee of the Faculty Council for final decision.

The Faculty of Medicine reserves the right to dismiss, or to deny admission, registration, readmission, or graduation to any student who in the judgment of the Faculty of Medicine is to be unsuited for the study or practice of medicine.

Students in the College of Physicians and Surgeons are required to pass National Board Examinations Parts I and II prior to graduation.

Leaves of absence may be granted by the Dean for a limited period of time in exceptional circumstances only for health reasons or personal emergencies.

Key to Course Numbers

Medical Center courses: The suffixes F and S refer to first- and second-year courses, respectively. Numbers without a suffix indicate major clinical year clerkships that are repeated throughout the year in instruction periods of twelve weeks or less.

Basic Science and Introductory Clinic Courses of the First and Second Years

Abnormal Human Biology M6102
Dr. Canfield and interdepartmental associates: Cardiology, Dr. Drusin; Pulmonary, Dr. Caldwell; Endocrinology-Metabolism, Dr. Jacobs; Gastroenterology, Dr. Tall; Hematology, Dr. Bank; Immunology, Dr. Butler; Infectious Diseases, Dr. Neu; Oncology, Dr. Garret; Nephrology, Dr. Al-Awqati; Surgery, Dr. Lo Gerfo.
Exercises in the application and correlation of the basic sciences to a broad range of clinical problems. Teaching is by seminar/lecture and is closely integrated with courses in pathology, pharmacology, and introductory medicine.

Anatomy M5101. Microscopic anatomy
Dr. Nunez and departmental staff.
Lectures, conferences, and laboratory exercises including light and electron microscopic studies of structure in relation to function.

Anatomy M5102. Human anatomy
Drs. April, Moss, and departmental staff.
Lectures, conferences, and laboratory encompassing basic morphologial and functional human anatomy.

Anatomy M5103. Human development
Dr. Silverman and departmental staff.
Lectures, demonstrations, and laboratory emphasizing the fundamental processes of embryogenesis; closely integrated with *Anatomy 101F—Microscopic anatomy.*

Biochemistry M5101. Introductory biochemistry
Dr. Gold and departmental staff.
Lectures and conferences stressing principles of biochemistry and their relationship to disease processes.

Genetics M5101. Medical genetics
Dr. Schon and associates.
Lectures and clinical presentations emphasizing the practice of clinical genetics and the application of principles of genetics to the medical specialties.

Medicine M6104. Society and medicine
Dr. Rothman and associates.
Lectures and preceptor sessions to explore some of the legal, social, and ethical considerations that structure decision making in medicine.

Medicine M6105. Introduction to the patient
Dr. Charon and associates.
Clinical electives, lectures, and small group discussions introduce the student to the perspective of the patient, teach skills in medical interviewing, and examine the personal elements of the medical encounter.

Medicine M6106. Introduction to the patient clerkship
Dr. Siris and associates.
An intensive four-week clerkship (at Harlem, Overlook, Presbyterian, Roosevelt, or St. Luke's Hospital) during which the student learns to take a comprehensive medical history and perform a complete physical examination.

Microbiology M5101. General microbiology
Dr. Silverstein and departmental staff.
Lectures, conferences, and laboratory covering the basic principles of cell regulation, immunology, virology, and the biology of pathogenic organisms.

Anatomy-Physiology M6106. Neural science
Drs. Kandel, Kelly, Kupfermann, Rowland, and Schwartz.
Lectures, seminars, laboratories, and clinical demonstrations to provide an integrated understanding of neurophysiology, neuroanatomy, biochemistry, and behavior.

Nutrition M5101. Introduction to nutrition
Dr. Winick and associates.
Lectures that define the elements of nutrition essential for good health.

Pathology M6101. Pathology
Dr. Lefkowitch and departmental staff.
Lectures, conferences, and laboratories emphasizing the mechanisms of injury and repair in cells, tissues, and organ systems. Includes systemic pathology (light and electron microscope studies to elucidate the pathogenesis of findings in diseases) and neuropathology (studies of diseases of the nervous system). *Neuropathology M6106* may be taken as a separate course by graduate students only.

Pharmacology M6101. General and special pharmacology
Dr. Wit and departmental staff.
Lectures, seminars, and demonstrations to elucidate the basic principles essential for the effective use of drugs as therapeutic or diagnostic agents.

Medicine M5101. Physician-patient relationship
Dr. Park and associates.
Preceptor sessions emphasizing the central role of the physician-patient relationship in the practice of medicine and the importance of the effects of health care organization and other factors on that relationship.

Physiology M5101. Human physiology
Dr. Blank and departmental staff.
Lectures, demonstrations, and conferences to define the function of specific cells, tissues, and organs and their homeostatic mechanisms.

Psychiatry M5101. Psychiatric medicine, I
Dr. Cutler and departmental staff.
Lectures and seminars presenting the salient features of normal development.

Psychiatry M6102. Psychiatric medicine, II
Dr. Cutler and departmental staff.
Lectures and seminars covering the major mental illnesses and the elements of patient interviewing.

Public Health M5101. Structure of health care systems
Dr. Rosenberg and associates.
Lectures and seminar groups on the current organization of health care.

Public Health M5102. Epidemiology
Dr. Carmichael and associates.
Lectures and seminars to present epidemiological principles.

Public Health M5103. Biostatistics
Dr. Fleiss and associates.
Lectures on the basic elements of biostatistics applicable to medicine.

Public Health M6104. Parasitic diseases
Dr. Despommier and associates.
Lectures and laboratories stressing parasitic diseases likely to be encountered and the techniques necessary for the diagnosis of these diseases.

Major Clinical Year

Anesthesiology M7201. Clinical clerkship in anesthesiology
Dr. Curry and staff at the Presbyterian Hospital.
A clerkship that provides training in preanesthetic evaluation, management, and postanesthetic care of surgical patients. At the conclusion of the clerkship students should be able to do the following: (1) describe the major factors to be considered in selecting anesthetic drugs and techniques for patients undergoing common surgical procedures; (2) describe indications for positive pressure ventilation of the lungs and how the adequacy of such ventilation can be determined; (3) differentiate between a patent and obstructed airway in a patient and demonstrate on a patient or mannikin his/her ability to obtain a patent airway by positioning; (4) describe the indications for use of an endotracheal tube; (5) describe procedures used for resuscitation of a patient who has had cardiac arrest and demonstrate on a mannikin his/her ability to perform mouth-to-mouth ventilation and closed chest cardiac massage; (6) describe medications for and contraindications to the use of local anesthetics to provide infiltration and nerve block anesthesia; and (7) describe the causes, prevention, diagnosis, and treatment of local anesthetic drug toxicity.

Dermatology M7201. Clinical clerkship in dermatology
Dr. Walther and staff.

Medicine M7201. Clinical clerkship in medicine
Dr. Garvey and staff at the Harlem, Presbyterian, Roosevelt, and St. Luke's Hospitals.
Extended clinical experience under a preceptorship system at Presbyterian Hospital and at another affiliated hospital, Harlem, Roosevelt, or St. Luke's Hospital. At the conclusion of the clerkship the student should be capable of taking a precise medical history, performing an accurate physical examination, interpreting basic laboratory data, formulating a cogent problem list, and communicating these data in accurate verbal and written form. These skills will be acquired in the patient care setting in order to increase the student's understanding of the physiologic, psychologic, and social aspects of medicine and to prepare the student for the assumption of clinical responsibility under close supervision.

Neurology M7201. Clinical clerkship in neurology
Dr. Rowland and staff at the Neurological Institute of the Presbyterian Hospital
A comprehensive experience in clinical neurology provided at the bedside at the Neurological Institute. Under close supervision of a junior and senior resident and an attending physician in neurology, students learn to obtain a systematic neurological history and to perform and interpret the neurological examination. By active participation in the evaluation and care of patients, expertise is obtained in the diagnosis and treatment of common neurological diseases. Students learn how to do a lumbar puncture and they become familiar with electrodiagnostic and neuroradiological tests. Experience is also obtained in neurosurgery and rehabilitation medicine. Management of neurological emergencies is learned during night call with the senior resident. In addition, a comprehensive core knowledge of clinical neurology is ensured by a course syllabus, daily rounds, and preceptor sessions with the attending physician.

Neurology M7202. Neurosurgery
Dr. Stein and staff at the Neurological Institute of the Presbyterian Hospital.
Included in *Neurology M7201.*

Obstetrics and Gynecology M7201. Clinical clerkship in obstetrics and gynecology
Dr. Koulos and staff at the Harlem, Presbyterian, Roosevelt, and St. Luke's Hospitals.
A comprehensive clerkship in obstetrics and gynecology under close supervision of house staff and attendings. On the gynecological wards and in the clinics the student learns to take a sexual and gynecological history, to examine the breasts, abdomen, and pelvis, to distinguish normal and abnormal findings relative to gynecological disease, and to diagnose and manage benign and malignant gynecologic tumors. The student acquires the skills needed to approach problems of sexuality and an understanding of the impact of changing physiological states in menarche and menopause. One the obstetrical service the student learns the medical and surgical complications encountered during pregnancy and delivery, and the student learns to diagnose and manage pregnancy. The student participates in the conduct of labor, the delivery, and the care of the newborn.

Ophthalmology M7201. Clinical clerkship in ophthalmology
Dr. Donn and staff.

Orthopedic Surgery M7201. Clinical clerkship in orthopedic surgery
Dr. Dick and staff at the Presbyterian Hospital.
On the orthopedic surgery clerkship students learn to perform an orthopedic physical examination and to take an orthopedic history from a patient. The clerkship provides students with insight into the more common musculoskeletal problems (including fractures and trauma) and the basic approaches to management of these problems by an orthopedic surgeon. The student is expected to gain insight into how the discipline of orthopedic surgery works in conjunction with other specialties and how an orthopedic service provides in-patient and out-patient care.

Otolaryngology M7201. Clinical clerkship in otolaryngology
Dr. Abramson and staff at the Presbyterian Hospital.
A clerkship designed to teach the skills of physical examination of the ear, nose, and throat and to provide an understanding of certain diseases where this examination is crucial in diagnosis and management. The clerkship includes selected didactic lectures, followed by a preceptor-type experience in the clinic where students examine and work up a number of patients under the direct supervision of a faculty member.

Pediatrics M7201. Clinical clerkship in pediatrics
Drs. Katz, Atwood, and staff at the Babies Hospital (Presbyterian), Harlem, Roosevelt, and St. Luke's Hospitals.
A clinical clerkship providing both in-patient and ambulatory care experience. The student is introduced to the study of infants and children: growth and development, diseases, and health care maintenance. The student develops basic skills in the following areas: taking the pediatric history from the parents and from the older child; performing the physical examination of the pediatric patient, including the young infant; observing, analyzing, and recording the interaction between parent and child; and ordering and interpreting laboratory tests. The student learns to integrate the data acquired and formulate an appropriate problem list and plan for the patient. The student also learns to make the basic measurements of physical, neurological, and psychosocial growth and development, and to plot and assess the data.

Psychiatry M7201. Clinical clerkship in psychiatry
Dr. Marcus and staff at the New York State Psychiatric Institute, Harlem, Presbyterian, Roosevelt, and St. Luke's Hospitals.
A comprehensive clerkship in psychiatry. In active participation in patient care under faculty supervision the student is expected to learn to conduct a psychiatric history and mental status examination and to develop refined interviewing skills, noting verbal and nonverbal behavior. The student learns to make a psychiatric differential diagnosis, to use psychotropic drugs effectively, to evaluate suicide potential, and to develop and enhance therapeutic rapport. The clerkship aims to provide an appreciation of the effects of psychological, social, and biological phenomena on illness-related behaviors.

Radiology M7201. Diagnostic radiology (medical)
Dr. Baker and staff.

Radiology M7202. Diagnostic radiology (surgical)
Dr. Baker and staff.

Rehabilitation Medicine M7201. Clinical rehabilitation medicine
Dr. Downey and staff at the Neurological Institute of the Presbyterian Hospital.
Included in *Neurology M7201.*

Surgery M7201. Clinical clerkship in surgery
Dr. Reemtsma and staff at the Presbyterian Hospital.
A comprehensive clinical clerkship during which the student is expected to demonstrate improvement in ability to perform histories and physical examinations on surgical patients and to formulate rational diagnostic and therapeutic plans. The student is expected to demonstrate increasing skill and competence in performing selected procedures, in assuming supervised responsibility for patient care, in communicating succinctly and with clarity to patients and colleagues, and in building a functional body of critically examined information regarding common surgical entities.

Surgery M7202. Lectures and demonstrations in surgical pathology
Dr. Reemtsma and staff; Dr. Perzin and staff.
As part of the surgical clinical clerkship (*Surgery M7201*), these three one-and-a-half hour sessions per week describe various selected problems in surgical pathology. The didactic lectures are presented by the surgical "academic senior resident" (PGY5). This resident presents the clinical aspects of various surgical diseases and is assisted by a surgical pathology senior resident, who demonstrates gross specimens and microscopic slides appropriate to the topics and patients being discussed.

Urology M7201. Clinical clerkship in urology
Dr. Olsson and staff.
During the clinical clerkship in urology students learn to identify common disorders of the genito-urinary tract through precise patient interviews and examinations. Both ambulatory and in-patients are evaluated. By knowing diagnostic methods unique to urology, students are able to formulate appropriate diagnostic and therapeutic plans.

Fourth Year

Interdepartment 301. Ambulatory care/public health selective
Dr. C. Ortiz-Neu, course coordinator.
Each student in the fourth year is required to select an elective in ambulatory care, which includes clerkship experience in Public Health/Community Medicine. (For the rest of the Fourth Year see page 45 and the elective catalogue.)

Special Programs

M.D.—Ph.D. Program

This is a cooperative program sponsored by the Graduate School of Arts and Sciences and the College of Physicians and Surgeons for students who have had a strong undergraduate program in science and have a strong commitment to biomedical research. The program allows students to work toward the Ph.D. degree in one of the disciplines listed below in addition to earning the M.D. degree.

Students who participate in the program are admitted to the College of Physicians and Surgeons and to the Graduate School of Arts and Sciences.

Students complete the basic science requirements of the medical program and enter a participating department of the Graduate School to carry out the Ph.D. program. They then complete the balance of the requirements for the M.D. degree.

The participating Ph.D. programs are:

Anatomy and Cell Biology
Biochemistry and Molecular Biophysics
Biological Sciences
Chemistry
Epidemiology
Genetics and Development
Statistics
Microbiology
Nutrition
Pathology
Pharmacology
Physiology and Cellular Biophysics
Psychology

For additional information students should write to Dr. David Schacter, Chairman, Graduate Biomedical Sciences Advisory Committee, Department of Physiology and Cellular Biophysics, College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y. 10032.

To apply, students should request an application from the College of Physicians and Surgeons. The application form provides instructions for students applying to the M.D.-Ph.D. program.

Joint M.D./M.P.H. Program

This dual degree program is under the joint direction of the College of Physicians and Surgeons and the School of Public Health. In addition to preclinical and clinical medical training, stu-

dents gain substantive knowledge of the methods and content needed to protect and improve the health of populations and communities. Methods available include those of biostatistics, epidemiology, the social sciences and management. Students choose from content areas including problems of the environment, health care delivery, international health, geriatrics and gerontology, maternal and child health, disease prevention and health promotion or concentrate in methodology. Students are prepared for careers as traditional public health officers or a wide variety of opportunities for research or practice in both the private and public sector of the economy. They develop concrete skills of research or administration applicable in interdisciplinary health service settings, both clinical and community based.

Before being considered for admission to the joint degree program, the applicant must first be accepted as a degree candidate in the College of Physicians and Surgeons. Formal application to the School of Public Health may then be made at any time before the student enters the fourth year of medical training. The overall length of the joint program, registration, and scheduling patterns differ for individual students. The total elapsed time could be as short as four years, but might extend beyond the four-year graduation date of the medical school. In general, during the first three years the joint degree student uses vacation and free time in the medical schedule to cross-register for public health courses. In the fourth year the student registers concurrently in the two schools, permitting opportunities to complete core, track, and elective public health courses and also carry the required clinical elective work in the medical curriculum. The M.D. and the M.P.H. degrees may be awarded simultaneously at the end of the fourth year; either degree may be awarded separately when the requirements have been met.

For further information, consult the Dean's Office in the College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y. 10032, or the Dean's Office in the School of Public Health, 600 West 168th Street, New York, N.Y. 10032.

Integrated M.D.—Oral and Maxillofacial Surgery Program

This program is a cooperative effort of the College of Physicians and Surgeons, the School of Dental and Oral Surgery, and the Presbyterian Hospital. It has been designed to train specialists equipped to handle the expanded scope of maxillofacial surgical practice and to provide academic, research, and clinical leadership in this area. The program combines study for the M.D. degree at the College of Physicians and Surgeons with residency training in oral and maxillofacial surgery and general surgery at Presbyterian Hospital. Candidates must be accepted for admission to both the College of Physicians and Surgeons and the residency training program in oral and maxillofacial surgery. Interested candidates should request further information and an application form from Dr. Steven M. Roser, Division of Oral and Maxillofacial Surgery, School of Dental and Oral Surgery, 630 West 168th Street, New York, N.Y. 10032.

Programs in Physical Therapy and Occupational Therapy

Educational programs are offered by the Department of Rehabilitation Medicine to students who have already earned a bachelor's degree. They may apply for admission to a two-year program leading to the Master of Science degree in physical therapy or occupational therapy, or a second professional Master of Science degree in occupational therapy education or occupational therapy administration. Details are given in the bulletin of Programs in Physical Therapy and Occupational Therapy.

Program of the Center for Psychoanalytic Training and Research

A course of training in the theory and practice of psychoanalytic medicine is offered through the Center for Psychoanalytic Training and Research of the Department of Psychiatry. The program, a minimum of four years in length, leads to the award of a certificate in Psychoanalysis. For details, see the bulletin of the Center (formerly the Psychoanalytic Clinic).

Programs in Nutrition

The Master of Science program, administered by the Postgraduate Division of the Faculty of Medicine, is a twelve-month program that serves as a foundation for students who plan to continue for the Doctor of Philosophy degree or to attend a professional school in the health sciences. In addition, the master's program is offered to physicians and other health specialists who wish to augment their training with a knowledge of nutrition.

Requirements for admission: a bachelor's degree from an accredited college, with a strong emphasis on the sciences, including two years of chemistry, one year of biology, and a course in elementary biochemistry. The Graduate Record Examination is required.

Under the jurisdiction of the Executive Committee on Graduate Instruction of the Graduate School of Arts and Sciences, students may follow a program of studies leading to the Ph.D. degree. Course work and thesis research in nutritional biochemistry and in clinical and public health nutrition are carried out under the guidance of the Doctoral Program Subcommittee on Nutrition.

Requirements for admission: successful completion of the Master of Science degree program as outlined above, or the equivalent, and demonstrated scholarly ability in pursuing advanced studies and research. In addition, students must fulfill the general requirements for the degree which govern all Ph.D. candidates in the University.

Postdoctoral training in nutrition is offered for qualified individuals having the degree of Doctor of Medicine or the degree of Doctor of Philosophy who intend to pursue careers in teaching and research in nutrition. Clinics, selected nutrition courses, seminars, and participation in research projects are offered to qualified individuals. This program has considerable flexibility and is arranged with the individual to suit his or her particular goals and needs. Postdoctoral training is also available for qualified individuals holding either a doctorate in dentistry or a Ph.D. degree who plan to pursue a career teaching in dental schools and doing research related to nutrition and oral health.

Inquiries concerning the above programs may be directed to the Institute of Human Nutrition, 701 West 168th Street, New York, N.Y. 10032.

Program in Biophysics and Biophysical Chemistry

The program of study in biophysics and biophysical chemistry, which leads to the award of the degree of Doctor of Philosophy, is under the jurisdiction of the Graduate School of Arts and Sciences. Information about admission and degree requirements and courses of instruction is given in the bulletin of the Graduate School of Arts and Sciences.

Endowed Lectureships and Visiting Professorship

Through the kindness of generous donors, the resources of the Faculty of Medicine include several distinguished lectureships and a visiting professorship:

The *Cartwright Lecture Fund*, established under the will of Benjamin Cartwright, made possible biennial lectures under the sponsorship of the P&S Alumni Association during the period 1881–1912. A new series of Cartwright Lectures was inaugurated under the College's auspices in November 1974.

The *Alexander Ming Fisher Lectures* were established under the terms of the will of Dr. A.M. Fisher's half-brother, E. Douglas Southwick, to make possible lectures on the general theme of Death and Dying.

The *Michael Heidelberger Lectures* were begun in 1955 to honor the notable contributions of Dr. Heidelberger, now Professor Emeritus of Immunochemistry, and to stimulate further scientific progress in immunochemistry and related disciplines.

The *Ludwig Schaefer Visiting Professorship* was established by the bequest of the late Ludwig Schaefer to encourage and promote research work in the sciences of human physiology. It provides for the appointment of a visiting professor for six months, from parts of the world other than North and South America.

The *David Seegal Lectureship and Visiting Professorship Fund,* given by the Alpha Omega Alpha Honor Medical Society and others, provides for the appointment of a visiting professor who is in residence for five days. During this time he or she delivers the David Seegal Lecture on Chronic Disease.

Prizes and Awards

The *Distinguished Service Award* of the College of Physicians and Surgeons is given annually at Commencement exercises to a member of the faculty for outstanding contributions to medicine.

The *Louisa Gross Horwitz Prize,* the recipient of which traditionally gives a public lecture, was established under the will of the late S. Gross Horwitz in honor of his mother and is given annually in recognition of outstanding basic research in the fields of biology or biochemistry.

The *Charles W. Bohmfalk Memorial Prizes for Distinguished Contributions to Teaching in the Preclinical Sciences* and for *Teaching in the Clinical Sciences,* established in memory of a graduate of the class of 1883 and given to a member of the faculty for significant contributions to educational programs of the College.

The *Dr. Harold and Golden Lamport Research Awards* were initiated in 1983 to recognize outstanding young researchers in basic science and in clinical science.

The *Joseph Mather Smith Prize* is awarded to the graduate of the College whose original research in medical subjects is deemed by the Dean's Advisory Committee on Honors and Awards to be the most meritorious.

The *Stevens Triennial Prize* is awarded to the person, not necessarily a graduate of the College, whose original research on any medical subject is deemed by the Dean's Advisory Committee on Honors and Awards to be the most meritorious.

The *Dean's Award for Outstanding Contributions to Teaching* was inaugurated in the mid-1970s as an appropriate way to recognize faculty members who are notably effective as teachers or leaders in education.

Postgraduate Programs

Opportunities for continuing medical education beyond the M.D. degree are offered at the College of Physicians and Surgeons through three major programs: (1) the training of specialists by means of hospital residencies; (2) special courses in general medicine and in the specialities, for practicing physicians and physicians in training who wish to renew and continue their educational experiences in the various fields of medicine; and (3) the Doctor of Medical Science Program, for physicians with particular interest and competence in research in the basic sciences. Further information about these programs may be obtained from the Office of the Dean of the Faculty of Medicine.

Graduate Training of Specialists

The program offers training opportunities through fellowships at the College of Physicians and Surgeons and residencies at affiliated hospital for holders, of the M.D. degree. Proper training for specialization includes four major elements. First, it provides a comprehensive clinical experience as a resident in the hospital that is equipped and staffed to provide graded responsibilities under the supervision of experts in the selected specialty. Second, it disciplines the resident in scientific attitudes toward health and disease and enriches the clinical experience through advanced training in those medical sciences that are largely concerned with the resident's specialty. Third, it enables the resident to see and to begin to understand the effect of illness on the individual patient and the response of that person to the illness and to the physician. The relationships that the resident physician develops with individual patients set the pattern for his or her participation in the delivery of health care after the completion of the residency. Finally, it gives the student the opportunity, either as a resident or as a fellow, to do basic or clinical research. This, in turn, may stimulate the type of creative productivity that may earn the student a recommendation for admission to a program leading to the award of the Doctor of Medical Science degree.

Postgraduate Courses for Practicing Physicians and Specialists

A variety of short courses have been organized at hospitals and clinics affiliated with the University; they are available at the Columbia-Presbyterian Medical Center and at the other affiliated hospitals. No University credit or certificates are granted for these courses, but continuing medical education credit is granted through the Physicians Recognition Award of the American Medical Association.

Courses for the general practitioner furnish opportunities to keep abreast of new knowledge and the latest methods of diagnosis, treatment, and prevention; and to learn the indications, limitations, and value of those technical procedures that require the attention of a qualified specialist. The instruction consists largely of first-hand clinical experience, lectures, demonstrations, and discussion.

For those already practicing a specialty, advanced instruction is given in the therapeutic and diagnostic methods of certain limited fields of practice. Enrollment is limited to those who have the preparation necessary to enable them to benefit by the advanced instruction.

Program for the Doctor of Medical Science Degree

The University confers the Med. Sc. D. degree upon a few physicians who have completed a research project in one of the basic science fields. Only staff members of the Columbia-Presbyterian Medical Center are eligible for this degree. A minimum of two years of full-time work in the basic science field is required. Additional requirements include completion of a significant and original research project, the passing of comprehensive and oral examinations, and submission of a dissertation.

Departments of Instruction

Listed are faculty appointments as of July 1, 1989.

The designation "also" indicates that the faculty member holds appointments in two departments. The designation "in" is used when an individual holds an appointment in the department where listed, with assignment to the department named after the "in."

Anatomy and Cell Biology

Professor and Chairman

Michael D. Gershon. *B.A., Cornell, 1958; M.D., 1963*

Professors

Anthony Bellve (in Urology and the Center for Reproductive Sciences). *B.Ag.Sci., Massey (New Zealand), 1964; M.Ag.Sc., 1967; Ph.D., North Carolina State, 1970*
Philip W. Brandt. *B.A. Swarthmore, 1952, M.S., Pennsylvania, 1957; Ph.D., Columbia, 1960*
Melvin L. Moss. *B.A., New York University, 1942; D.D.S., Columbia 1946; Ph.D., 1954*
Eladio A. Nunez. *B.S., St. John's (New York), 1951; M.S., 1953; Ph.D., New York University, 1964*
Ann-Judith Silverman. *B.A., California (Los Angeles), 1967; Ph.D., 1970*
Virginia Tennyson (also Pathology). *B.S., Pennsylvania State, 1946; M.S., Baylor, 1956; Ph.D., Columbia, 1960*
Dominique Toran-Allerand (in the Center for Reproductive Sciences). *B.A., Smith, 1955; M.D., Albany Medical College, 1959*

Professor of Clinical Neurochemistry

Hadassah Tamir (in Psychiatry). *M.S., Hebrew (Jerusalem), 1955; M.D., Israel Institute of Technology, 1959*

Adjunct Professors

Manfred Otto Nahmmacher. *Ph.D., Giessen (Germany), 1960*
Samuel Rosner. *M.D., Royal College of Physicians and Surgeons (Edinburgh), 1940; F.I.C.S., 1951*

Associate Professors

Richard T. Ambron. *B.S., Villanova, 1965; Ph.D., Temple, 1971*
Ernest W. April. *B.S., Tufts, 1961; Ph.D., Columbia, 1969*
Jeannette C. Bulinski. *B.A., Colorado, 1973; Ph.D., Wisconsin, 1980*
David R. Colman. *B.A., New York University, 1970; Ph.D., State University of New York (Downstate), 1977*
Richard H. Kessin. *B.A., Yale, 1966; Ph.D., Brandies, 1971*
Ronald K.H. Liem (also Pathology) (in the Center for Neurobiology & Behavior). *B.A., Amherst, 1967; M.S., Cornell, 1969; Ph.D., 1973*
Carol Mason (also Pathology) (in the Center for Neurobiology & Behavior). *B.S., Chatham, 1967; M.A., California (Berkeley), 1969; Ph.D., 1973*

Associate Professor of Clinical Neurobiology & Behavior

Samuel M. Schacher (in Psychiatry). *B.S., Columbia, 1971; M.A., 1974; Ph.D., 1976*

Research Scientist

Taube Pearl Rothman. *B.A., City College of New York, 1969; Ph.D., Cornell, 1975*

Assistant Professors

John E. Bergmann. *B.S., Massachusetts Institute of Technology, 1972; Ph.D., 1979*
Christopher A. Gabel. *B.S., Iowa State, 1975; Ph.D., Washington (Seattle), 1979*
Gregg G. Gundersen. *B.S., Wisconsin, 1977; Ph.D., Washington, 1983*
John E. Pintar (in the Center for Reproductive Sciences). *B.A., Case Western Reserve, 1970; Ph.D., Oregon, 1977*
Lorna Role (in the Center for Neurobiology & Behavior). *B.A., Harvard, 1975; Ph.D., 1981*
Ira A. Tabas (also Medicine). *B.S., Tufts, 1975; M.D., Washington, 1981*
Larry D. Witte (in Medicine). *B.S., Iowa State, 1970; Ph.D., 1974*

Assistant Professor of Clinical Psychiatry

Stephen G. Rayport (in the Center for Neurobiology & Behavior). *B.A., Harvard, 1975; Ph.D., Columbia, 1981; M.D., 1982*

Adjunct Assistant Professor

Craig H. Bailey (in Psychiatry and the Center for Neurobiology & Behavior). *B.A., Lehigh, 1967; M.S., 1969; Ph.D., 1973*

Associate Research Scientists

Theresa A. Brancheck. *B.A., Cornell, 1975; Ph.D., Oregon, 1979*
Halina D. Den. *B.S., Frankfort, 1949; M.S., New York University, 1954; Ph.D., Michigan, 1958*
James P. Kelly (also Otolaryngology). *B.A., Harpur, 1966; Ph.D., Washington (St. Louis), 1971*
Tuan Duc Pham. *B.S., St. Edward's (Texas), 1962; M.S., Loyola, 1967; M. Phil., Ph.D., Columbia, 1975*
Leslie E. Toth. *B.A., Delaware, 1978; Ph.D., 1988*
Joan W. Witkin. *M.A., Columbia, 1975; Ph.D., 1981*

SPECIAL LECTURER

Charles Noback, Ph.D

Anesthesiology

E. M. Papper Professor and Chairman

Edward D. Miller, Jr. *B.A., Wesleyan, 1964; M.D., Rochester, 1968*

At Presbyterian Hospital

Professors

Henrik H. Bendixen. *M.D., Copenhagen, 1951*
Mieczyslaw Finster (also Obstetrics & Gynecology). *B.A., Gymnasium (Poland), 1941; M.D., Geneva, 1957*
Allen I. Hyman. *B.A., Columbia, 1955; M.D., Albany Medical College, 1959*
Hisayo Morishima (also in Obstetrics & Gynecology). *M.D., Toho (Tokyo), 1951; Ph.D., Tokyo 1960*

Gabriel G. Nahas. *M.D., Toulouse, 1944; Ph.D., Minnesota, 1953 (Nanking), 1944*
Eugene J. Pantuck. *B.S., Tufts, 1959; M.D., 1963*
Lubos Triner. *M.D., Charles (Prague), 1955; Ph.D., 1961*

Adjunct Professor

Sidney Spector (also Pharmacology). *B.S., Denver, 1948; M.S., 1950; Ph.D., Jefferson, 1956*

Adjunct Professor of Pharmacology

Allan H. Conney. *B.S., Wisconsin, 1952; M.S., 1954; Ph.D., 1956*

Professors of Clinical Anesthesiology

Leonard Brand. *B.S., Yale, 1946; M.D., Columbia, 1949*
Richard S. Matteo. *B.A., Syracuse, 1950; M.D., State University of New York (Upstate), 1955*

Clinical Professor

Donald C. Brody. *B.A., Harvard, 1952; M.D., Boston, 1956*

Associate Professors

Arthur D. Finck. *B.S., Lafayette, 1969; M.D., Columbia, 1972*
Leila M. Pang. *B.A., Hawaii, 1966; M.D., State University of New York (Downstate), 1970*
Peter T. Rothstein (also Pediatrics). *B.A., Brandeis, 1966; M.D., Albert Einstein, 1970*
J. Gilbert Stone. *B.A., Dartmouth, 1960; M.D., State University of New York (Downstate), 1964*

Associate Professors of Clinical Anesthesiology

Hoshang Jal Khambatta. *M.D., Karachi, 1958*
Eugene Ornstein. *M.S., Polytechnic Institute of Brooklyn, 1973; Ph.D., 1977; M.D., Miami (Florida), 1979*
Hilda Pedersen. *M.B.,Ch.B., Edinburg, 1958*
Charles Weissman (also Medicine). *B.A., Yeshiva, 1972; M.D., State University of New York (Downstate), 1976*

Associate Professor of Clinical Bioengineering

Alvin Wald. *B.E.E., Cooper Union, 1955; M.E.E., Polytechnic Institute of Brooklyn, 1960; Ph.D., New York University, 1974*

Associate Clinical Professors

Keith J. Bernstein. *B.A., New York University, 1968; M.D., State University of New York (Downstate), 1974*
Pat J. Martin. *M.D., Columbia, 1974 Richard K. Raker. B.A., Michigan (Ann Arbor), 1969; M.D., 1973*
Richard K. Raker. *B.A., Michigan (Ann Arbor), 1969; M.D., 1973*
Jen-Tien Wung (also in Pediatrics). *M.D., Tapei Medical College, 1966*

Research Scientists

Salha S. Daniel (also Pediatrics). *B.S., London, 1954; Ph.D., 1957*
Subhash Jamdar. *B.S., Government Science (Nagpur), 1960; Ph.D., Nagpur University, 1966*

Assistant Professors

Joan F. Benca. *B.A., Bryn Mawr, 1976; M.D., Illinois, 1980*
Mitchell F. Berman. *B.A., Brown, 1977; M.D., Michigan 1981; M.P.H., Harvard, 1983*
Anthony R. Brown. *M.B.,Ch.B., Capetown (South Africa), 1972*
Saundra Curry. *B.A., Cornell, 1974; M.D., 1982*
Jeffrey Dornbusch. *B.A., California (Berkley), 1975; M.D., Yale, 1980*
Timothy J. Dowd. *B.A., Columbia, 1974; M.D., Cornell, 1982*
Ingrid Anne-Marie Fitz-James. *B.A., Sarah Lawrence, 1973; M.D., Columbia, 1977*
Desmond A. Jordan. *B.S., Cornell, 1974; M.D., Brown, 1979*
Patti S. Klein. *B.A., Vassar, 1978; M.D., George Washington, 1982*
Matthew T. Levine. *B.A., State University of New York (Buffalo), 1980; M.D., Tel Aviv (Israel), 1984*
Laurence P. Mark. *B.S., Harvey Mudd, 1975; M.D., Columbia, 1979*
Donald M. Mathews. *B.A., Harvard, 1980; M.D., Columbia, 1984*
Samantha Mullis. *B.S., Michigan State, 1975; M.D., 1979*
Peter L. Salgo. *B.A., Columbia, 1971; M.D., 1975*
William Schechter. *B.A., Columbia, 1976; M.S., New York University, 1978; M.D., State University of New York (Buffalo), 1982*
Arthur E. Schwartz. *B.S., Rensselaer Polytechnic Institute, 1978; M.D., State University of New York (Downstate), 1982*
Arthur J. Smerling. *M.D., Pittsburgh, 1980*
Richard M. Smiley. *B.S., Massachusetts Institute of Technology, 1977; M.A., Columbia, 1978; Ph.D., Columbia, 1981; M.D., Miami, 1983*
Lena S. Y. Sun. *B.S., Massachusetts Institute of Technology, 1975; M.D., Mt. Sinai, 1979*
William L. Young. *B.A., Indiana, 1976; M.D., College of Medicine and Dentistry of New Jersey, 1979*

Assistant Professors of Clinical Anesthesiology

Dorothy A. Black. *B.A., Rutgers, 1957; M.A., Columbia, 1959; M.D., Harvard, 1965*
Kathryn A.W. Cozine. *M.D., Johns Hopkins, 1961*
Ellise S. Delphin. *B.A., Barnard, 1971; M.D., Columbia, 1975*
Alber Faltas. *M.D., Kasr-El-Ainy Medical School (Egypt), 1961*
Carolyn P. Greenberg. *B.A., Stanford, 1962; M.D., California (San Francisco), 1966*
Gerald S. Weinberger. *M.D., New York University, 1948*
Sook Young Woo. *B.S., Ewha Women's University (Seoul), 1968; M.D., 1972*
Joseph Chuan-Shih Yang. *B.S., Taiwan, 1959; M.D., Medical Academy (Dusseldorf), 1964*

Assistant Professor of Clinical Psychology

Robert Dworkin (in Anesthesiology and Psychiatry). *B.A., Pennsylvania, 1971; Ph.D., Harvard, 1977*

Associate Research Scientist

Yvonne Vulliemoz. *M.S., Lausanne, 1958; Ph.D., Paris, 1969*

SPECIAL LECTURER

Vance R. Lauderdale, Jr. M.D.

INSTRUCTOR

Douglas T. Jackson, M.D.

At Mary Imogene Bassett Hospital

Associate Clinical Professor

Andrew L. Rauscher. *M.B., London, 1963; M.B.,B.S., 1966*

Assistant Clinical Professors

Edward Palmer. *B.A., Dartmouth, 1967; M.D. Cornell, 1971*
Robert Quarmby. *B.S., State University of New York (Stony Brook), 1974; M.S., Rensselaer Polytechnic Institute, 1977; M.D. Columbia, 1982*
David A. Ullman. *B.A., Vermont, 1979; M.D., George Washington, 1983*

At Harlem Hospital

Assistant Professor

Gilbert Phanor. *B.S., Lycee T. Gilboro, 1953; M.D., Medical School of Haiti, 1960.*

Assistant Professors of Clinical Anesthesiology

Yvetot Antoine. *M.D., State University of Haiti, 1962*
Mita Dhruvkumar Gunderia. *B.S., Wilson College (Bombay), 1970; M.D., Grant (Bombay), 1976*
Archibald K. Hinds. *B.A., College of the City of New York, 1952; M.D., Montpelier, 1962*
Jung Kie Park. *B.S., Soyang (Seoul), 1972; M.D., Han Yang (Seoul), 1977*
J. Sinclair Trimiar. *B.S., Howard, 1960; D.D.S., 1964*

Assistant Clinical Professors

Gerald Augustin. *B.A., Fordham, 1980; M.D., State University of New York (Brooklyn), 1984*
Clarissa P. Carino. *B.S., Far Eastern (Manila), 1966; M.D., 1968*
Young In Choi. *M.D., Ewha Woman's University (Seoul), 1975*
Jacques Dole. *M.D., Medical School of Port-au-Prince (Haiti), 1972*
Michele J. Lewis. *B.S., Tufts, 1981; M.D., State University of New York (Downstate), 1985*
Eliseo S. Ozomek. *M.D., Buenos Aires (Argentina), 1962*
Sidney O. Veitch. *M.B.,B.S., West Indies, 1968*

SPECIAL LECTURER

Samuel C. Brisbane, M.D.

At Overlook Hospital

Assistant Clinical Professors

John Rocco Calabro. *B.S., Manhattan, 1971; M.D., College of Medicine and Dentistry of New Jersey, 1975*
Henry A. Connolly, Jr. *B.S., Fordham, 1951; M.D., Hamburg, 1955*
Demetrios B. Kalas. *M.D., Aristotelian, 1954*

INSTRUCTORS IN CLINICAL ANESTHESIOLOGY

Sami A.M. Abadir, M.D.
Jane De V. Stark, M.D.
Carol Zimmerman, M.D.

At St. Luke's-Roosevelt Hospital Center

Assistant Professors of Clinical Anesthesiology

Enzio Gallozzi. *M.D., Rome, 1953*
Joseph Iacovelli. *B.A., Buffalo, 1952; M.D., Bologna, 1958*

ASSOCIATES IN CLINICAL ANESTHESIOLOGY

Guglielmina Bettinti, M.D.
Hilda H.C. Liu, M.D.
Altagracia H. Polanco, M.D.

INSTRUCTORS IN CLINICAL ANESTHESIOLOGY

David J. Birnbach, M.D.
Gary S. Feldstein, M.D.
Julio M. Garcia Rodriguez, M.D.
Dilber Hussein, M.D.

INSTRUCTORS (continued)

Zdan J. Korduba, M.D.
Han Chiang Lee, M.D.
Ignacia U. Ngo, M.D.
Kyaw Nyunt, M.B., B.S.
Nirmal V. Patel, M.D.
Michael Bruce Putter, M.D.
Kenneth A. Rothenberg, M.D.
Kristappa Sangavaram, M.D.

Biochemistry and Molecular Biophysics

Professor and Acting Chairman

Alvin I. Krasna. *B.A., Yeshiva, 1950; Ph.D., Columbia, 1955*

Professors

Frederick W. Alt (also Microbiology). *B.S., Brandeis, 1971; Ph.D., Stanford, 1978*
Richard Axel (Eugene Higgins Professor) (also Pathology) (in the Institute of Cancer Research). *B.A., Columbia, 1967; M.D., Johns Hopkins, 1970*
Ruth E. Benesch. *B.Sc., London, 1946; Ph.D., Northwestern, 1951*
Kathryn L. Calame. (also Microbiology). *B.S., Missouri, 1962; M.S., George Washington, 1965; Ph.D., 1975*
Isidore S. Edelman (Robert Wood Johnson, Jr., Professor). *M.D., Indiana, 1944*
Philip Feigelson. *B.S., Queens, 1947; Ph.D., Wisconsin, 1951*
Stephen Goff. *B.A., Amherst, 1973; Ph.D., Stanford, 1978*
Robert F. Goldberger. *M.D., New York University, 1958*
Maxwell Gottesman (Charles H. Revson Professor) (also Microbiology) (in the Institute of Cancer Research). *M.D., Yale, 1960; Ph.D., 1965*
Dezider Grunberger (also Public Health) (Environmental Health) (in the Institute of Cancer Center). *M.Sc., Technical (Czechoslovakia), 1950; Ph.D., Czechoslovakia Academy of Sciences, 1956; Sc.D., 1968*
Wayne Hendrickson. *B.A., Wisconsin, 1963; Ph.D., Johns Hopkins, 1968*
Barry Honig. *B.Sc., Polytechnic Institute (Brooklyn), 1963; M.A., Johns Hopkins, 1964; Ph.D., Weizmann Institute (Israel), 1968*
Arthur Karlin (Eugene Higgins Professor) (also Neurology). *B.A., Swarthmore, 1957; Ph.D., Rockefeller, 1962*
Barbara W. Low. *B.A., Oxford, 1942; M.A., 1946; D. Phil, 1948*
Dinshaw Patel. *Ph.D., New York University, 1966*
Parithchery Srinivasan. *B.Sc., Madras, 1946; Ph.D., 1953*

Adjunct Professor

Benno P. Schoenborn. *B.A., California (Los Angeles), 1958; Ph.D., New South Wales, 1962*

Associate Professors

Kurt Drickamer. *B.S., Stanford, 1973; Ph.D., Harvard, 1978*
Allen M. Gold. *B.A., Chicago, 1950; Ph.D., Harvard, 1955*
Thomas Jessel. B. *Pharm., London, 1973; Ph.D., Cambridge, 1974*

Adjunct Associate Professor

John D. Karkas. *Ph.D., Columbia, 1962*

Research Scientist

Philip E. Bourne. *B.S., Flinders (Australia), 1974*

Assistant Professors

Aneel K. Aggarwal. *Ph.D., Kings College (London), 1984*
Richard K. Assoian (in the Center for Reproductive Sciences). *Ph.D., Chicago, 1981*
Robert S. Cohen (in Urology and the Center for Reproductive Sciences). *B.S., Delawre, 1978; Ph.D., Southern California, 1982*
Mitchell Goldfarb. *Ph.D., Massachusetts Institute of Technology, 1979*

Associate Research Scientists

Francis K. Athappilly. *B.S., Calicut (India), 1977; M.S., 1979*
Henry A. Choy. *B.A., California, 1971; M.S., Michigan, 1974; Ph.D., Michigan, 1980*
Richard A. Friedman. *M.S., Mew York University, 1974; Ph.D., 1977*
Xiaolian Gao. *B.S., Beijing Institute of Chem. Tech. (China), 1982; Ph.D., Rutgers, 1986*
David J. Glass. *B.A., Columbia, 1981; M.D., New York Medical College, 1985*
Sahebarao Mahadik (also Psychiatry). *Ph.D., Poona (India), 1969*
Arno Otto Pahler. *M.S., Gottingen (Germany), 1976; Ph.D., 1983*
Veeramac K. Prasad. *Ph.D., City University of New York, 1979*
William E. Royer. *B.S., Pennsylvania, 1976; Ph.D., Johns Hopkins, 1984*
James J. Russo. *B.S., St. John's (New York), 1974; M.S., New York University, 1977; Ph.D., 1981*
Probir Sarkar (in the Institute for Cancer Research). *M.D., Albert Einstein, 1978*
Kim Andrew Sharp. *Ph.D., British Columbia, 1985*
Eftihia Tzilianos. *Ph.D., Witwatersrand (South Africa), 1972*

SPECIAL LECTURERS

Erwin Chargaff, Ph.D.
Max A. Eisenberg, Ph.D.
Seymour Lieberman, Ph.D.
David B. Sprinson, Ph.D.

At Mary Imogene Bassett Hospital

Adjunct Associate Professor

Theodore Peters, Jr. *B.S., Lehigh, 1943; Ph.D., Harvard, 1950*

Dermatology

Associate Clinical Professor and Acting Chairman

Robert R. Walther. *B.A., Cornell, 1969; M.D., North Carolina, 1973*

At Presbyterian Hospital

Professor

Leonard C. Harber (Richard & Mildred Rhodebeck Professor of Dermatology) (also Public Health). *B.A., Johns Hopkins, 1949; M.D., New York University, 1953*

Professor of Clinical Dermatology

Richard Scher. *B.A., New York University, 1949; M.A., Brooklyn, 1951; M.S., New York University, 1960; M.D., Howard, 1955; M.A., Brown, 1984*

Clinical Professors

Marc E. Grossman. *B.A., State University of New York (Buffalo), 1970; M.D., Pennsylvania, 1975*
Saul L. Sanders. *B.A., Kenyon, 1950; M.D., Cornell, 1952*

Associate Clinical Professors

Jack Eisert. *B.A., Cornell, 1952; M.D., State University of New York (Downstate), 1956*
David N. Silvers (also Pathology). *B.A., Haverford, 1964; M.D., Duke, 1968*
Richard L. Walzer. *B.A., Harvard, 1952; M.D., Columbia, 1956*

Assistant Professors

Carola Louise Berger (also Pathology). *B.S., City College of New York, 1966; M.A., Columbia, 1971; M.S., 1975; Ed.D., 1976; Ph.D., 1984*
Vincent De Leo (Irving Assistant Professor). *B.S., Louisiana State, 1965; M.D., 1969*
Janet H. Prystowsky. *B.S., Pennsylvania State, 1974; M.S., Columbia, 1975; Ph.D., 1979; M.D., Chicago, 1983*

Assistant Clinical Professors

Irving Abrahams. *B.A., New York University, 1948; M.D., State University of New York (Downstate), 1954*
Alan D. Andrews. *B.S., Illinois, 1968; M.D., Virginia, 1972*
Robert B. Armstrong. *B.A., Haverford, 1969; M.D., Columbia, 1973*
Vincent S. Beltrani. *B.A., Brooklyn, 1953; M.D., Columbia, 1957*
Yehuda D. Eliezri. *B.A., Brooklyn, 1966; M.S., Yeshiva, 1971; M.D., Western Ontario, 1976*
Robert B. Feinstein, *M.D. New York University, 1967*
Anthony N. Gregory. *M.P.H., Chapel Hill, 1977; M.D., 1984*
Eric W. Herman. *B.A., State University of New York (Buffalo), 1972; M.D., Mt. Sinai, 1976*
Cheryl S. Hutt. *B.A., Barnard, 1974; M.D., Columbia, 1978*
Einar A. Juhlin. *B.S., Illinois, 1950; M.D., Royal Charles (Sweden), 1957*
Elizabeth H. Knobler. *B.A., Skidmore, 1972; M.P.H., Columbia, 1974; M.D., State University of New York (Stonybrook), 1984*
Steven R. Kohn. *B.A., Rutgers, 1964; M.D., Boston, 1968*
Theodore A. Labow. *M.D., Tufts, 1955*
Asher D. Rabinowitz. *B.A., Yeshiva, 1970; M.D., George Washington, 1974*
Jack H. Rozen. *B.S., Pittsburgh, 1958; M.D., 1962*
Paul Ira Schneiderman. *B.S., Wisconsin, 1967; M.D., State University of New York (Syracuse), 1971*

SPECIAL LECTURERS

Leslie P. Barker, M.D.
Margarita Hutner, M.D.

LECTURERS

Richard L. Edelson, M.D.
Francisco Kerdel-Vegas, M.D.
Robert Knobler, M.D.

ASSOCIATES IN CLINICAL DERMATOLOGY

William D. Atwood, M.D.
Rhonda Koenig Berkowitz, M.D.

ASSOCIATES *(continued)*

William J. Cunningham, M.D.
Leon K. Demar, M.D.
Howard Horlick, M.D.
Ruth Kaplan-Treiber, M.D.
Bruce Elliot Katz, M.D.
Elizabeth Konecky, M.D.
Joseph Penner, M.D.
Kass Sadri, M.D.
Robert S. Seibt, M.D.
Luis S. Suarez, M.D.
Eugene W. Sweeney, M.D.

ASSOCIATES *(continued)*

Jo-Ann Szylit, M.D.
Arnold Charles Toback, M.D.
Harvey I. Weinberg, M.D.

INSTRUCTORS IN CLINICAL DERMATOLOGY

Laila M. Almeida, M.D.
Johann Baeuerle, M.D.
David E. Bank, M.D.
Robert Michael Bernstein, M.D.
Alice E. Cardullo, M.D.
Timothy J. Corey, M.D.

INSTRUCTORS *(continued)*

Danielle E. Engler, M.D.
Charles L. Halasz, M.D.
Jeffrey Kezis, M.D.
Amy Elaine Newburger, M.D.
Margaret S, Ravits, M.D.
Daniel M. Rosenthal, M.D.
Jeffrey Alan Sklar, M.D.
George E. Thorne, M.D.
Deborah A. Wiener, M.D.
Steven Wolinsky, M.D.

At St. Luke's-Roosevelt Hospital Center

Clinical Professor

Alexander W. Young, Jr. *B.S., Maryland, 1944; M.D., 1946*

Assistant Clinical Professors

William P. DiPietro. *B.S., Massachusetts Institute of Technology, 1972; M.D., Georgetown, 1976*
Herbert H. Hochman. *B.A., Columbia, 1966; M.D., Tulane, 1970*
Peter C. Lombardo. *B.S., Rochester, 1955; M.D., Albany, 1959*
David Sibulkin. *B.A., New York University, 1962; M.D., 1966*
Gregory Zalar. *B.S., George Washington, 1965; M.D., 1969*

ASSOCIATE IN CLINICAL DERMATOLOGY

Stanley J. Lewis, M.D.

INSTRUCTOR IN CLINICAL DERMATOLOGY

Elaine V. DiGrande, M.D.

Genetics and Development

Professor and Acting Chairman

Argiris Efstratiadis. *Dr. Med. Sci., Athens (Greece), 1971; M.D., 1966; Ph.D., Harvard, 1976*

Professors

Arthur Bank (also Medicine), *B.A., Columbia, 1956; M.D., 1960*
Marian B. Carlson (in the Institute of Cancer Research). *B.A., Radcliffe, 1973; Ph.D., Stanford, 1978*
Georgiana Jagiello (also Virgil G. Damon Professor of Obstetrics & Gynecology) (in the Center for Reproductive Sciences). *B.A., Boston, 1949; M.D. Tufts, 1955*

Adjunct Professor

Michael H. Wigler. *B.A., Princeton, 1970; M.S., Rutgers, 1972; Ph.D., Columbia, 1978*

Professors of Clinical Genetics

Jurg Ott (in Psychiatry). *Ph.D., Zurich, 1967; M.S., Washington, 1972*
Dorothy Warburton (in Pediatrics). *B.S., McGill. 1957; Ph.D., 1961*

Professors of Clinical Psychiatry

L. Erlenmyer-Kimling. *B.S., Columbia, 1957; Ph.D., 1960*
John D. Rainer. *B.A., Columbia, 1941; M.A., 1944; M.D., 1951*

Associate Professors

Frank Costantini. *B.S., Yale, 1974; Ph.D., California Institute of Technology, 1980*
Leonardus Van der Ploeg. *B.S., Amsterdam, 1980; Ph.D., 1984*
Debra Wolgemuth (in the Center for Reproductive Sciences). *B.A., Gettysburg, 1969; M.A., Vanderbilt, 1971; M. Phil., Columbia, 1975; Ph.D., 1977*

Assistant Professors

Maggi Allan (in Medicine). *B.A., Stirling (Scotland), 1975; Ph.D., Glasgow, 1979*
Elizabeth Robertson. *B.A., Oxford, 1978; M.A., 1982; Ph.D., Cambridge, 1982*
Rodney J. Rothstein. *B.S., Illinois, 1969; Ph.D., Chicago, 1975*
Eric A. Schon (in Neurology). *B.S., Columbia, 1968; M.S., Cincinnati, 1973; Ph.D., 1982*
Gary Struhl. (in the Center for Neurobiology & Behavior). *B.S., Massachusetts Institute of Technology, 1976; M.S., 1976; Ph.D., Cambridge, 1980*

Adjunct Assistant Professors

Jurgen Brosius (in the Center for Neurobiology & Behavior). *B.A., Johann Wolfgang Goethe (Frankfort), 1974; Ph.D., Max Planck Institute, 1976*
Andrew P. McMahon. *Ph.D., London, 1981*

Associate Research Scientist

Harlow K. Fischman. *B.A., Brooklyn, 1955; M.S., Arkansas, 1960; Ph.D., New York University, 1968*

LECTURER

Jerard Hurwitz, Ph.D.

Medicine

Samuel Bard Professor and Chairman

Robert M. Glickman. *B.A., Amherst, 1960; M.D., Harvard, 1964*

At Presbyterian Hospital

Professors

Qais Al-Awqati (Robert F. Loeb Professor) (also Physiology & Cellular Biophysics). *M.B.,Ch.B., Baghdad, 1962*
Arthur Bank (also Genetics & Development). *A.B., Columbia, 1956; M.D., Harvard, 1960*
J. Thomas Bigger (also Pharmacology) *B.A., Emory, 1955; M.D., Georgia, 1960*
John P. Bilezikian (also Pharmacology). *A.B., Harvard, 1965; M.D., Columbia, 1969*
Vincent P. Butler, Jr. *B.A., St. Peter's, 1949; M.D., Columbia, 1954*
Peter R.B. Caldwell. *B.A., Dartmouth, 1954; M.D., Harvard, 1958*
Robert E. Canfield (in the Irving Center for Clinical Research). *B.S., Lehigh, 1952; M.D., Rochester, 1957*
Paul J. Cannon. *B.A., Holy Cross., 1954; M.D., Harvard, 1958*
Leonard Chess. *B.S., Massachusetts Institute of Technology, 1964; M.D., State University of New York (Downstate), 1968*

Michael Field (also Physiology & Cellular Biophysics). *B.A., Chicago, 1953, M.D., Boston, 1959*
Andrew G. Frantz. *A.B., Harvard, 1951; M.D., Columbia, 1955*
DeWitt S. Goodman (Tilden-Weger-Bieler Professor of Preventative Medicine) (in the Institute of Human Nutrition). *A.B., Harvard, 1951; M.D., 1955*
John Lindenbaum. *B.A., Cornell, 1954; M.D., Harvard, 1959*
John N. Loeb. *A.B., Harvard, 1957; M.D., 1961*
Harold C. Neu. (also Pharmacology). *B.A., Creighton, 1956; M.D., Johns Hopkins, 1960*
Benvenuto Pernis (also Microbiology). *M.D., Milan, 1947*
Alan R. Tall. *M.B.,B.S., Sydney (Australia), 1970*
Donald F. Tapley (Alumni Professor). *B.S., Acadia, 1948; M.D., Chicago, 1952*
Gerald E. Thomson (Samuel W. Lambert Professor). *B.S., Queens, 1955; M.D., Howard, 1959*
I. Bernard Weinstein (Frode Jensen Professor) (also Public Health) (in the Comprehensive Cancer Center). *B.S., Wisconsin 1951; M.D., 1955*

Professor of Geriatric Medicine

Sidney Katz. B.S, Case Western Reserve, 1944; *M.D., 1948*

Professor of Medical Informatics

Paul Clayton. *B.A., Utah, 1966; M.S., Arizona, 1969; Ph.D., 1973*

Professor of Social Medicine

David J. Rothman (Bernard Schoenberg Professor) (in the Center for the Study of Society and Medicine). *B.A., Columbia, 1958; M.A., Harvard, 1959; Ph.D., 1964*

Professors of Clinical Medicine

Gerald B. Appel. *B.A., Cornell, 1968; M.D., Albert Einstein, 1972*
Elsa-Grace V. Giardina. *B.A., Bryn Mawr, 1961; M.D., New York Medical College, 1965*
Donald A. Holub. *B.A., Columbia, 1949; M.D., 1952*
Israeli A. Jaffe. *B.S., New York University, 1947; M.D., Columbia, 1950*
Edgar Leifer. *B.S., College of the City of New York, 1937; M.A., Columbia, 1939; Ph.D., 1941; M.D., 1946*
Thomas Q. Morris. *B.A., Notre Dame, 1954; M.D., Columbia, 1958*
Jane H. Morse. *B.A., Smith, 1951; M.D., Columbia, 1955*
James A. Reiffel. *B.A., Duke, 1965; M.D., Columbia, 1969*
Joseph G. Sweeting. *B.S., Holy Cross, 1951; M.D., Columbia, 1956*
Robert N. Taub. *B.A., Yeshiva University, 1957; M.D., Yale, 1961; Ph.D., London, 1969*
Robert T. Whitlock. *B.A., North Carolina, 1950; M.D., 1957*

Adjunct Professor

Robert I. Levy. *B.A., Cornell, 1957; M.D., Yale, 1961*

Adjunct Professor of Clinical Medicine

Robert H. Palmer. *B.A., Oberlin, 1953; M.D., Harvard, 1957*

Clinical Professors

Ralph S. Blume. *B.A., Amherst, 1960; M.D., Columbia, 1964*
John R. Edsall. *B.A., Cambridge, 1945; M.B.,Ch.B., 1948*
Abbie I. Knowlton. *B.A., Bryn Mawr, 1983; M.D., Columbia, 1942*

William Lovejoy. *B.A., Yale, 1956; M.D., Columbia, 1962*
David J. McConnell. *B.A., Hamilton, 1969; M.D., Columbia, 1973*
Jay I. Meltzer. *B.A., Princeton, 1949; M.D., Columbia, 1953*
Richard J. Stock. *B.S., Yale, 1944; M.D., Columbia, 1947*
John A. Wood. *A.B., Harvard, 1943; M.D., 1946*

Senior Research Scientists

Steven Birken. *Ph.D., St. John's (New York), 1972*
Maynard E. Pullman. *B.S., Illinois, 1948; Ph.D., Johns Hopkins, 1953*

Associate Professors

Leslie Baer. *B.A., Wisconsin, 1959; M.D., Columbia, 1963*
Henry N. Ginsberg. *B.A., Brooklyn, 1960; M.D., State University of New York (Downstate), 1970*
Faramarz Ismail-Beigi. *B.A., Berea, 1962; M.D., Johns Hopkins, 1966; Ph.D., California (San Francisco), 1971*
Kung-Ming Jan. *M.B. National Taiwan, 1967; Ph.D., Columbia, 1971*
Sharon L. Wardlaw. *B.S., Cornell, 1970; M.D., 1975*

Associate Professors of Clinical Medicine

Conrad B. Blum. *B.S., Northwestern 1969; M.D., 1971*
Herbert S. Chase, Jr. *B.A., Brown, 1970; M.D., Mt Sinai, 1974*
Randolph P. Cole. *B. Ch. E., Manhattan, 1968; M.D., State University of New York (Downstate), 1973*
Jay Franklin Dobkin. *B.A., Columbia, 1968; B.M.S., Dartmouth, 1970; M.D., Harvard, 1972*
Ronald E. Drusin. *B.S., Union (Schenectady), 1962; M.D., Columbia, 1966*
Yale Enson. *B.A. Columbia, 1948; M.D., State University of New York (Downstate), 1953*
Dorothy Estes. *B.C., Wheaton (Massachusetts), 1946; M.D., Columbia, 1950*
Glenda J. Garvey. *B.A., Wellesley, 1964; M.D., Columbia, 1969*
Peter H. R. Green. *M.B.,B.S., Sydney, 1970; M.D., 1979*
Robert H. Heissenbuttel. *B.A., Thiel, 1959; M.D., Columbia, 1963*
Wylie C. Hembree, III (also Obstetrics & Gynecology). *B.A., Vanderbilt, 1960; M.D., Washington (St. Louis), 1964*
Thomas P. Jacobs. *B.A., Amherst, 1964; M.D., Johns Hopkins, 1968*
Lynne L. Johnson. *B.A., Wellesley, 1965; M.D., Columbia, 1969*
George W. Melcher, Jr. *B.A., Colorado, 1943; M.D., Columbia, 1946*
Juan A. Oliver. *Bachiller, Institute Menendez (Spain), 1961; M.D., Barcelona, 1967*
Martin W. Oster. *B.A., Columbia, 1967; M.D., Columbia, 1971*
Ethel S. Siris. *B.A., Radcliffe, 1967; M.D., Columbia, 1971*
Frank R. Smith. *B.A., Dartmouth, 1959; M.D., Columbia, 1962*
Charles Weissman (also Anesthesiology). *B.A., Yeshiva, 1972; M.D., State University of New York (Downstate), 1976*
Francis M. Weld. *A.B., Harvard, 1961; M.D., Columbia, 1965*

Associate Professor of Clinical Psychiatry

Jerry Finkel. *B.A., Columbia, 1957; M.D., 1961*

Associate Clinical Professors

David K. Blood. *B.A., Amherst, 1962; M.D., Columbia, 1966*
John O. Burris. *B.S., Wyoming, 1952; M.D., Rochester, 1956*
Michael H. Cohen. *B.A., Johns Hopkins, 1961; M.D., 1965*
Oliver T. Fein. *B.A., Swarthmore, 1962; M.D., Case Western Reserve, 1967*

Kenneth C. Fine. *M.D., Catholic (Louvain, Belgium), 1970*
Lionel Grossbard. *B.A., Columbia, 1957; M.D., 1961*
George A. Hyman. *B.A., Columbia, 1942; M.D., 1945*
Robert L. Jones. *B.S., Tulane University (New Orleans), 1966; M.D., 1970*
Rafael A. Lantigua. *M.D., Autonomous (Santo Domingo), 1972*
Oscar Lebwohl. *B.A., Dartmouth, 1968; M.D., Harvard, 1972*
Robert M. Lewy (also Public Health). *B.A., Rochester, 1967; M.D., New Jersey, 1971*
Frank S. Livelli. *B.A., Columbia, 1972; M.D., Harvard, 1976*
Aaron N. Manson. *B.A., Pennsylvania, 1972; M.D., 1976*
Eric R. Marcus (also Psychiatry). *B.A., Columbia, 1965; M.D., Wisconsin, 1969*
George H. McCormack, Jr. *B.S., Holy Cross, 1945; M.D., Columbia 1949*
Hans W. Neuberg. *B.A., Wagner, 1941; M.D., Columbia, 1950*
Carmen I. Ortiz-Neu. *B.A., Wellesley, 1959; M.D., Columbia, 1963*
Constance M. Park. *B.A., Radcliffe, 1964; M.S., Harvard, 1967; M.D., Albert Einstein, 1974*
Michael F. Parry. *B.A., Yale, 1966; M.D., Columbia, 1970*
Kenneth M. Prager. *B.A., Columbia, 1964; M.D., Harvard, 1968.*
Harvey A. Schneier. *B.A., Columbia, 1963; M.D., 1967*
Allan Schwartz. *B.S., College of the City of New York, 1967; M.S., Harvard, 1968; M.D. Columbia, 1974*
Eve E. Slater. *B.A., Vassar, 1967; M.D., Columbia, 1971*
Jeffrey A. Stein. *A.B., Harvard, 1960; M.D., 1965*
Joseph Tenenbaum. *B.A., Brandeis, 1968; M.D., Harvard, 1974.*
Cornelius J. Tyson. *B.A., Princeton, 1939; M.D., Columbia, 1943*
Herbert C. Weber. *M.D., Hebrew, (Israel), 1964*
Earl A. Wheaton, Jr. *B.A., Princeton, 1950; M.D., Columbia, 1954*

Assistant Professors

Ned S. Braunstein. *B.S., Northwestern, 1978; M.D. 1980*
Gary R. Burke. *B.A., St. Mary's, 1969; M.D., Minnesota, 1973*
L. David Carmichael. *A.B., Harvard, 1969; M.D., Albert Einstein, 1976*
Ivon E. Cayre (also Physiology & Cellular Biophysics). *M.D., Montpelier School of Medicine (France), 1972; D.Sc., Paris University (France), 1978*
Rita A. M. Charon. *B.A., Bensalem College, 1970; M.D., Harvard, 1978*
James J. Cimino. *B.S., Brown, 1977; M.D., New York Medical College, 1981*
James Coromilas. *B.S., Columbia, 1969; M.D., McGill, 1975*
Nadim E. Cortas. *B.S., American University of Beirut, 1963; M.D., 1967*
Ira Jay Goldberg. *B.S., Massachusetts Institute of Technology, 1971; M.D., Harvard, 1975*
Charles S. Hesdorffer. *M.B.,Ch.B., Witwatersrand (South Africa), 1978*
Alexander A. Hindenberg. *B.S., State University of New York (Stony Brook), 1974; M.D., Rutgers, 1978*
Evelyn Horn. *B.A., Brown, 1976; M.D., Mt. Sinai, 1980*
Jose Katz (also Radiology). *B.S., Illinois, 1963; M.S., 1964; Ph.D., 1967; M.D., Berlin, 1980*
Andrew M. Keller (also Radiology). *B.A., Ithaca, 1975; M.D., Ohio State, 1979*
Seth Lederman. *A.B., Princeton, 1979; M.D., Columbia, 1983*
David S. Leibowitz. *B.A., Columbia, 1972; M.D., 1977*
Arthur M. Magun. *B.A., Haverford, 1972; M.D., Mt. Sinai, 1977*
Jacques P. Merab. *B.S., Massachusetts Institute of Technology, 1976; M.D., Harvard, 1980*
Stephen A. Morris. *B.S., Pennsylvania; M.D., Albert Einstein, 1978*
Alan J. Moskowitz. *B.A., Vermont, 1974; M.D., New York Medical College, 1978*
Alfred I. Neugut. *Ph.D., M.D., Columbia, 1977*
Robert W. Rees-Jones (Irving Assistant Professor). *B.A., Dartmouth, 1975; M.D., Harvard, 1979*
Peter Lloyd Salgo (also Anesthesiology). *B.A., Columbia, 1971; M.D., 1975*
Brian Scully. *B.A., Trinity (Dublin), 1969; M.B., 1971*
Elizabeth Shane. *B.S., Dalhousie, 1969; M.D., Toronto, 1975*
Steven J. C. Shea (also Public Health). *A.B., Harvard, 1968; M.D., Columbia, 1979*

Susan F. Steinberg (also Pharmacology). *B.S., Massachusetts Institute of Technology, 1972; M.D., Harvard, 1976*
Ira A. Tabas (also Anatomy & Cell Biology). *B.S., Tufts, 1975; M.D., Ph.D., Washington University (St. Louis), 1977*
Judah Z. Weinberger (also Pharmacology). *B.A., Columbia 1974; M.A., 1975; M.D., Harvard, 1980; Ph.D., 1980*

Assistant Professor of Anatomy & Cell Biology

Larry D. Witte. *B.S., Iowa State, 1970; Ph.D., 1974*

Assistant Professor of Genetics & Development

Maggi Allan. *B.A., Sterling, 1975; Ph.D., Glasgow, 1979*

Assistant Professor of Medical Informatics

Carol Friedman. *B.S., City College of New York, 1968; M.S., New York University, 1986; Ph.D., 1989*

Assistant Professors of Pharmacology

Robert M. Clancy. *B.A., St. Louis, 1974; Ph.D., Illinois, 1982*
Steven Jay Feinmark. *B.A., Johns Hopkins, 1974; M.S., George Washington, 1977; Ph.D., 1980*

Assistant Professors of Social Medicine

Sherry I. Brandt-Rauf (in the Center for the Study of Society & Medicine). *M. Phil., Columbia, 1978; J.D., 1981*
Stephen Hilgartner (in the Center for the Study of Society & Medicine). *B.A., Cornell, 1983; M.A., Pennsylvania*

Adjunct Assistant Professor

Paul J. Maddon. *B.A., Columbia, 1981; M.D., Ph.D., 1988*

Assistant Professors of Clinical Medicine

Myles Akabas. *B.A., Cornell, 1977; M.D., Albert Einstein, 1982*
Mark Apfelbaum. *B.A., Yeshiva, 1977; M.D. Columbia, 1981*
Terri F. Apfelbaum. *B.A., Barnard, 1976; M.D., Columbia, 1980*
Rohit R. Arora. *B.S., Institute of Science (Bombay), 1972; M.D., Topiwalla National (India), 1976*
Peter J. Buchin. *B.A., Williams, 1970; M.D., Yale, 1974*
Amitabh Chak. *B.S., Yale, 1978; M.S., 1979; M.D., Columbia, 1984*
David J. Cohen. *B.A., Michigan, 1970; M.D., New York University, 1972*
Steven J. Corwin. *B.S., Northwestern, 1977; M.D., 1979*
Robert H. DeBellis. *B.S., Queens (New York), 1951; M.D., Columbia, 1958*
John C. Edwards. *B.S., Illinois, 1978; Ph.D., Chicago, 1983; M.D., 1985*
Juanita Evereteze. *M.D., State University of New York (Buffalo), 1979*
Jerry I. Gliklich. *B.A., Columbia, 1969; M.D., 1975*
Robin S. Goland. *M.D., Columbia, 1980*
Ellen G. Gold. *Sc.B., Brown, 1979; M.D., New York Medical College, 1983*
Keith M. Gottesdiener. *A.B., Harvard, 1977; M.D., Pennsylvania, 1982*
Steve M. Greenberg. *A.B., Harvard, 1978; M.D. Columbia, 1982*
Marc D. Grodman. *B.A., Pennsylvania, 1973; M.D., Columbia, 1977; M.P.P., Harvard, 1982*
Shunichi Homma. *B.A. Dartmouth, 1977; M.D., Albert Einstein, 1981*

Ada J. Huang. *B.A. Missouri, 1978; M.D., 1981*
Oscar H. Irigoyen. *B.S., Military Lyceum, 1965; M.D., Buenos Aires, 1971*
Rima Gail Kopelman. *B.A., Barnard, 1971; M.D., Columbia, 1977*
Cheryl L. Kunis. *M.D., Albert Einstein, 1975*
Jonathan D. LaPook. *B.S., Yale, 1975; M.D., Columbia, 1980*
Donald William Landry. *B.S., Lafayette, 1975; Ph.D., Harvard, 1979; M.D., Columbia, 1983*
Benjamin H. Lewis. *B.A., California (Berkeley), 1973; M.D., California (San Francisco), 1977*
Israel Lowy. *B.A., Princeton, 1977; Ph.D., 1982; M.D. Columbia, 1984*
Roger A. Maxfield. *B.A., Brown, 1974; M.D., 1977*
Robert J. McConnell. *B.A., Hamilton, 1969; M.D., Columbia, 1973*
Carlton C. McGregor. *B.S., Fordham, 1976; M.D., Harvard, 1980*
J. Gregory Mears. *B.S., Trinity (Connecticut), 1969; M.D., Columbia, 1973*
Robin O. Motz. *B.A., Columbia, 1959; Ph.D., 1965; M.D., 1975*
Marshall P. Primack. *B.A., Louisville, 1961; M.D., Johns Hopkins, 1965*
Barrie Lynn Raik. *B.A., Harpur, 1967; M.D., New York University, 1977*
Frederick A. Rapoport. *B.A., Columbia, 1970; M.D., 1974*
Dennis S. Reison. *B.S., Yale, 1971; M.D., Stanford, 1975*
John L. Roglieri. *B.A., B.S., Lehigh, 1960; M.D., Harvard, 1966*
Mario F. Romagnoli. *B.S., Fordham, 1972; M.D., Columbia, 1976*
Marlon S. Rosenbaum. *M.D., New York University, 1980*
Paul B. Rothman. *S.B., Massachusetts Institute of Technology, 1980; M.D., Yale, 1984*
Moshe Rubin. *B.A., Queens, 1979; M.D., Yale, 1983*
Mitchell J. Rubinoff. *B.A., Lehigh, 1974; M.D., Mt Sinai; 1979*
David I. Sahar. *B.A., Columbia, 1975; M.D., Columbia, 1980*
Lewis P. Schneider. *B.A., Queens, 1974; M.D., State University of New York (Downstate), 1978*
Stanley J. Schneller. *B.A., New York University, 1973; M.D., Harvard, 1977*
Larry L. Schulman. *B.A., Cornell, 1974; M.D., State University of New York (Downstate), 1978*
Alan H. Seplowitz. *B.A., Columbia, 1968; M.D., 1972*
William H. Sherman. *B.S., Pennsylvania State, 1967; M.D., Jefferson, 1969*
Shonni Silverberg (Irving Assistant Professor of Medicine). *B.A., Wesleyan, 1976; M.D., Cornell, 1980*
Marjorie L. Slankard. *B.A., Missouri, 1967; M.D., 1971*
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Christine C. Weart. *M.D., New York University, 1979*
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Linnea Capps (also Public Health). *B.S., Kansas, 1971; M.D., Missouri, 1977; M.P.H., Columbia*
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Daniel L. Larson. *M.D., Columbia, 1946*
Arnold L. Lisio. *B.S., Rochester, 1956; M.D., 1961*
Henry S. Lodge, Jr. *B.A. Pennsylvania, 1981; M.D., Columbia, 1985*
Daniel L. Macken. *B.A., Holy Cross, 1955; M.D., Boston, 1960*
Paul C. McCullough. *B.A., Rice, 1974; M.D., Johns Hopkins, 1978*
Jacob C. Melamed. *M.D., Munich Medical School (Germany), 1976*
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John E. Postley. *B.A., Yale, 1964; M.D., Columbia, 1968*
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Jack E. Tohme. *B.S., American University of Beirut, 1970; M.D., 1974*
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Associate Research Scientists

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Nai-Xun Chin, *M.D., Shanghai Second Medical College, 1961*
Joseph L. Dixon. *B.S., State University of New York (Binghamton), 1976; M.S. Wisconsin, 1979; Ph.D., 1982*
James Edasery. *Ph.D., Nebraska, 1979*
Mary Ann Gawinowicz. *B.A., Douglass, 1974; Ph.D., Columbia, 1978*
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Ildiko Radichevich. *M.A., Ukrainian Technological, 1948; Ph.D. Columbia, 1958*
Westley H. Reeves. *B.A., Columbia, 1975; M.D., Yale, 1979*
Steven L. Roffman. *B.A., Queens (New York), 1965; M.S., New York University, 1968; Ph.D., 1973*
Linda Rogozinski. *B.S., Quinnipiac (Conneticut), 1973; M.S., Columbia, 1981; M.P., 1984; Ph.D., 1985*
Robert R. Sciacca. *B.S., Columbia, 1971; M.S., 1974*
Joan L. Sobel. *B.S., City College of New York, 1965; M.S., City University of New York, 1970*
David A. Talmage. *B.A., Virginia, 1976; Ph.D., Minnesota, 1981*

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SPECIAL LECTURERS

Hylan A. Bickerman, M.D.
Harold S. Ginsberg, M.D.
Hamilton Southworth, M.D.
Alfred Steiner, M.D.

SENIOR LECTURER

Nicholas P. Christy, M.D.

LECTURERS

Jacob M. Cohen, M.B.Ch.B.
William M. Manger, M.D.
Robert W. Morrow, M.D.
Raanan Smelin, M.D.
Henry M. Thomas III, M.D.
Edward Weissman, M.D.
Felix Wimpfheimer, M.D.
Robert Zussman, M.D.

ASSOCIATES IN CLINICAL MEDICINE

Donna M. Hartl, M.D.
Elias M. Kaimakliotis, M.D.
Harold Novog, M.D.
Karen P. Oldham, M.D.
Alan L. Saroff, M.D.

INSTRUCTORS IN CLINICAL MEDICINE

Yadon Arad, M.D.
Susan C. Ball, M.D.
Martin J. Birkhofer, M.D.
Eric M. Bonnem, M.D.
Howard Chase, M.D.
Audrey Compton, M.D.
Arthur De Simone, M.D.
Servando G. De Los Angeles, M.D.
Julia F. Farmer, M.D.
David Feit, M.D.
Sarah K. Garrison, M.D.
Michael Goldman, M.D.
Susan Goodman, M.D.
David A. Greenwald, M.D.
JoEllen Habas, M.D.
Joseph Heller, M.D.
Ralph Herz, Jr., M.D.
Peter L. Hofmann, M.D.

INSTRUCTORS (continued)

Eddy Jean-Baptiste, M.D.
Terri F. Katz, M.D.
Barron H. Lerner, M.D.
Laureano Lopez-Garrido, M.D.
Averil I. Ma, M.D.
Pier Mancusi-Ungaro, M.D.
Susan R. Morales, M.D.
Ann E. Morrison, M.D.
Edwin Naamon, M.D.
Katherine G. Nickerson, M.D.
Michael I. Plotnick, M.D.
Jennifer M. Plumb, M.D.
Daniel Popenoe, M.D.
Richard M. Rosenberg, M.D.
Mark S. Silberman, M.D.
Radomir D. Stevanovic, M.D.
David R. Stone, M.D.
Joseph G. Wiedermann, M.D.
Robert H. Williams, M.D.
Joseph Yu, M.D.

ASSISTANTS

Abdul C. K. Azeez, M.B.B.S.
Daniel S. Ballin, M.D.
Antonio J. Castillo, M.D.
Milton Ehrlich, M.D.
Edward Fletcher, M.D.
Jerry R. Frank, M.D.
Carl J. Franzetti, D.O.
Prem C. Ghai, M.D.
Saul Gilson, M.D.
David A. Gomez, M.D.
Harold Grushkin, M.D.
Issachar Karten, M.D.
Eric A. Larsen, M.D.
Frank J. Maselli, M.D.
Margaret G. McIntosh, M.D.
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Robert S. Mirsky, M.D.
Luis A. Morales, M.D.
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Don V. Lewis. *B.A., North Carolina, 1967; M.D., 1971*
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David W. Vaules. *B.A., Dartmouth, 1960; M.S., 1961; M.D. Rochester, 1963*

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Philip J. Dzwoncyzk. *B.S., Scranton, 1975; M.D., Jefferson, 1979*
Frank M. Hall. *B.A., Washington & Jefferson, 1966; M.D., State University of New York (Buffalo), 1970*
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Roy Korn, Jr. *B.S., Illinois, 1985; M.D., 1985*
Michael Levenstein. *B.A., State University of New York (Oneonta), 1974; M.D., State University of New York (Stony Brook), 1981*
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Evan S. Morrison. *B.S., Haverford, 1980; M.D., Hahnemann, 1985*
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Associate Clinical Professors

George C. Branche. *B.A., Bowdoin, 1944; M.D., Boston, 1948*
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Martin H. Ehrlich. *B.S., Long Island, 1932; M.D., New York Medical College, 1936*
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Tai-Ping Lee. *M.B.,B.S., Taipei Medical College (Taiwan), 1980*
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Hazeline Nurse. *B.A. City University of New York, 1965; M.D., Medical College of Pennsylvania, 1969*
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James M. Roberts. *B.A., Howard, 1980; M.D., Columbia, 1984*
Sharma Saith. *B.S., West Indies (Jamaica), 1969; M.B., 1978*

Assistant Clinical Professors

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Valentine J. Burroughs. *B.A., Michigan, 1971; M.D., 1975*
James T. Chien. *M.D., Yale-in-China Medical College, 1943*
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Thomas J. Mattimore. *A.B., Harvard, 1969; M.D., Georgetown, 1973; M.P.H., Harvard, 1976*
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Richard R. Prouty. *M.D., Johns Hopkins, 1948*
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ASSOCIATES IN CLINICAL MEDICINE

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INSTRUCTORS IN CLINICAL MEDICINE

Nanette Alexander-Thomas, M.D.
Herman L. Anderson, Jr., M.D.
Viola Anderson, M.D.
Lawrence Brown, Jr., M.D.
Carl A. Garnier, M.D.
Major Geer, M.D.
Maxine E. Hamilton, M.B.B.S.
Ross T. Hamilton, M.D.
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INSTRUCTORS *(continued)*

James H. Hubert, M.D.
Matthews K. Hurley, M.D.
Adeyemi Johnson, M.D.
Walter W. Johnson, M.D.
Richard O. Kennedy, M.D.
Anthony King, M.D.
Luigi M.F. Negri, M.D.
Samuel I. Okonta, M.D.
Ruth C. Onukwue, M.D.
Aslene E. Palmer, M.D.
Thomas J. Price, M.D.
William J. Schwartz, M.D.
Mark I. Siegel, M.D.

ASSISTANT

Karel R. Kennedy, M.D.

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Professor of Clinical Medicine

Robert Lindsay. *M.P.C.B., Glasgow, 1968; Ph.D., 1969*

Assistant Clinical Professors

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Marjorie Louise King. *M.D., Pennsylvania, 1982*
Jack Tohme. *B.Sc., American University of Beirut, 1970; M.D., 1974*

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Professor of Clinical Medicine

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Assistant Clinical Professors

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Hillel Ben-Asher. *A.B., Chicago, 1952; M.D., 1956*
Emil Bisaccia. *B.A., Ohio State, 1974; M.D., Medical College of Ohio, 1979*
Joel E. Cannilla. *B.S., Mt. St. Mary's 1956; M.D., Seton Hall, 1960*
Robert A. Capone. *B.A., New York University, 1974; M.D., Columbia, 1978*
Alan Chanin. *B.A., Franklin & Marshall (Pennsylvania), 1973; M.D., Albert Einstein, 1976*
Kevork Cileli. *M.D., Ankara (Turkey), 1957*
Bernard Davidoff. *B.A., St. John's, 1969; M.D., Columbia, 1973*
Barry Efros. *B.A., George Washington, 1970; M.D., College of Medicine & Dentistry of New Jersey, 1974*
Joel R. L. Ehrenkranz. *M.D., Stanford, 1977*
Joseph F. Fennelly. *B.S., Seton Hall, 1952; M.D., New York Medical College, 1956*
Paul L. Fine. *B.S., Haverford, 1975; M.D., Yale, 1979*
Arthur Fisch. *B.A., Rutgers, 1965; M.D., Boston, 1969*
Stuart Warren Fox. *B.A., Cornell (Ithaca), 1971; M.D., 1975*
Arthur J. Geller. *B.A., Dartmouth, 1954; M.D., Chicago, 1959*
Gary Gerstein. *B.S., St. Joseph's (Pennsylvania), 1969; M.D., Jefferson, 1973*
Stephen Guss. *B.A., Yale, 1964; M.D., Harvard, 1968*
Oscar R. Kruesi. *B.S., Union (Schenectady), 1947; M.D., Cornell, 1951*
David S. Lerman. *B.A., New York University, 1964; M.D., Hahnemann, 1968*
Robert V. McCormick. *S.B., Harvard, 1944; M.D., 1946*
Sudhir Mehta. *B.S., Bombay, 1967; M.B.,B.S., 1972*
Earl Nielson. *B.S., City College of New York, 1962; M.D., Vermont, 1966*
Mark A. Oliver. *B.S., Vermont, 1967; M.D., Chicago, 1971*
Stephen W. Papish. *B.A., Pennsylvania, 1970; M.D., 1974*
Richard A. Paul. *M.D., Barcelona, 1976*
William M. Petkun. *A.B., Harvard, 1978; M.D., New York University, 1982*
William S. Pond. *B.S., Michigan, 1973; M.D., Tufts, 1977*
John E. Rossman. *M.D., Illinois, 1966*
Joseph J. Ryan. *B.S., Notre Dame, 1965; M.D. State University of New York (Downstate), 1970*
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Craig A. Schiffner. *B.A., Princeton, 1973; M.D., George Washington, 1977*
Felix Schletter. *B.S., Rutgers, 1954; M.D., State University of New York (Albany), 1958*
Nassare-Din Shariati. *M.D., National University of Iran (Tehran), 1972*
Charles A. Shioleno. *M.D., Georgetown, 1977*
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David Widman. *B.A., New York University, 1971; M.D., Harvard, 1975*
Barry Zitomer. *B.A., Rutgers, 1959; M.D., Pennsylvania, 1963*

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Jon William Brunswick, M.D.
Donald P. Burt, M.D.
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Pamela G. Freedman, M.D.
Robert S. Freid, M.D.
Peter Gallerstein, M.D.
Lee W. Geller, M.D.
Eugenie George, M.D.
Steven Mark Gudis, M.D.
Arthur N. Hoaglund, M.D.
Thomas R. Holland, M.D.
Ibrahim Housri, M.D.
Stephen Krasnica, M.D.
David Lewin, M.D.
Stelio Mangiola, M.D.
James S. Najarian, M.D.
Marilyn Orenstein, M.D.
Michael Orenstein, M.D.
John Penek, M.D.
Celso S. Puno, M.D.
Ralph Reichert, M.D.
Barry Reiter, M.D.
Carmen Renna, M.D.
Marie Lalor Rozan, M.D.
Stephen W. Rozan, M.D.
Leslie David Schlesinger, M.D.
Zalman R. Schrader, M.D.
Stephen Mark Schreibman, M.D.
Dean C. Shore, M.D.
Jay I. Stack, M.D.
Sheree Starrett, M.D.
John G. Valeri, M.D.
Richard Ira Watson, M.D.
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At Overlook Hospital

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Samuel M. Gray. *B.S., Chicago, 1963; M.D., 1967*
E. Thomas Holland (Family Practice). *B.A., Wesleyan, 1971; M.D., Chicago, 1975*
Thomas V. Inglesby. *B.S., Mt. St. Mary's., 1959; M.D., Maryland, 1963*
Susan T. Kaye. *B.S. Brown, 1975; M.D., New York University, 1979*

Michael B. Kerner. *B.S., Rutgers, 1967; M.D., Bowman Gray, 1971*
Joel D. Levinson. *B.A., Cornell, 1959; M.D., Georgetown, 1963*
Michael Stephen Lux. *B.S., City University of New York, 1973; M.D., New York University, 1977*
Lawrence J. Nastro. *B.A., Brooklyn, 1961; M.D., State University of New York (Downstate), 1965*
Steven J. Stanzione. *B.A., Georgetown, 1962; M.D., College of Medicine and Dentistry of New Jersey, 1966*
William A. Tansey, III. *B.A., Yale, 1966; M.D., Columbia, 1970*
William N. Toth. *B.S., Georgetown, 1956; M.D., Hahnemann, 1960*
William E. Wagner, Jr. *B.A., Princeton, 1945; M.D., Columbia, 1950*
Richard Weinberg. *B.S., Rensselaer Polytechnic Institute, 1970; M.D., Union, 1970*
Donald H. Wernsing (Family Practice). *M.D., Hahnemann, 1975*

INSTRUCTORS IN CLINICAL MEDICINE

Joseph A. Belladonna, M.D.
Donald J. Brock, M.D.
H. Oliver Brown, Jr., M.D.
Kopel Burk, M.D.
Joseph A. Clemente, M.D.
Andrew Coronato, Jr., M.D.
Ann Petra D'Adamo, M.D.
Rosina B. Dixon, M.D.
Charles E. Dooley, Jr., M.D.
Joseph T. Faraldo, M.D.
John P. Farry, M.D.
Robert B. Francis, M.D.
Trina Frankel, M.D.
Harvey Gerhard, M.D.
David E. Guyer, M.D.
Eugene R. Kelly, M.D.
Thomas H. Kloss, M.D.
A. Ralph Kristeller, M.D.
Kerry S. Lebenger, M.D.
David I. Lintz, M.D.
Ines Linzmayer, M.D.
Marvin A. Lipsky, M.D.
Dennis A. Lowenthal, M.D.
Robert P. Margie, M.D.
David P. Miller, M.D.
Daniel J. Moriarty, M.D.
Sanford M. Reiss, M.D.
Robert L. Rosenbaum, M.D.
Melvin Rubinstein, M.D.
R. Gregory Sachs, M.D.
Robert D. Slama, M.D.
Robert R. Springer, M.D.
Elliott M. Stein, M.D.
Michael Suhl, M.D.
Burton Tucker, M.D.
Michael B. Wax, M.D.
David Allen Worth, M.D.

At St. Luke's-Roosevelt Hospital Center

Professors

John F. Bertles. *B.S., Yale, 1945; M.D., Harvard, 1952*
Robert B. Case. *B.A., Wesleyan, 1953; M.D., Columbia, 1958*
Peter R. Holt. *B.Sc., Tolington, 1949; M.B.,B.S., London, 1954*
Gerald B. Phillips. *B.A., Princeton, 1946; M.D., Harvard, 1948*
William Rosner. *B.A., Wisconsin, 1954; M.D., Albert Einstein, 1961*
Gerard M. Turino (John H. Keating Professor). *B.A., Princeton, 1945; M.D., Columbia, 1948*
Harvey J. Weiss. *A.B., Harvard, 1951; M.D., 1955*

Adjunct Professor

Jules Hirsch. *B.S., Rutgers, 1944; M.D., Texas, 1948*

Professors of Clinical Medicine

A.L. Loomis Bell. *B.S., Wesleyan, 1944; M.D., Harvard, 1947*
Stanley Cortell. *B.S., Massachusetts Institute of Technology, 1957; M.D., Tufts, 1961*
Edward M. Dwyer. *B.A., Columbia, 1957; M.D., 1961*

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Harvey G. Kemp. *B.A., Oklahoma, 1955; M.D., Johns Hopkins, 1959*
Emil Pascarelli. *B.A., Columbia, 1952; M.D., Pavia (Italy), 1958*
F. Xavier Pi-Sunyer. *B.A., Oberlin, 1955; M.D., Columbia, 1959*
Richard N. Pierson, Jr. *B.A., Princeton, 1961; M.D., Columbia, 1966*
Miles J. Schwartz. *B.S., Queens (New York), 1947; M.D., New York University, 1961*

Clinical Professors

Richard P. Ames. *B.A., Williams, 1954; M.D. Columbia, 1958*
Jonas M. Goldstone. *S.B., Harvard, 1951; M.D., 1955*
Albert W. Grokoest. *B.S., Hamilton, 1940; M.D., Columbia, 1943*
Philip H. Henneman. *A.B., Harvard, 1943; M.D., 1946*
Richard McCray. *B.A., Wesleyan, 1954; B.D., Yale, 1957; M.D. Columbia, 1962*

Senior Research Scientist

Beatrice M. Fairchild. *B.A., Hunter, 1942; M.A., Bryn Mawr, 1943; Ph.D., 1948*

Associate Professor

Steven B. Heymsfield. *B.A., Hunter, 1966; M.D., Mt. Sinai, 1971*

Associate Professors of Clinical Medicine

Judith Axelrod. *B.S., Wellesley, 1953; M.D., Cornell, 1967*
C. Redington Barrett. *B.A., Yale, 1955; M.D., Columbia, 1959*
Robert S. Bernstein. *B.A., Columbia, 1961; M.D., Harvard, 1965*
Norman M.T.W. Braun. *B.A., Pennsylvania, 1959; M.D., Columbia, 1963*
Jeffrey M. Brensilver. *M.D., Columbia, 1971*
Henry M. Greenberg. *B.A., Pennsylvania, 1961; M.D., Tufts, 1968*
Donald Philip Kotler. *M.D., Albert Einstein, 1973*
Michael Lange. *M.D., Toronto, 1968*
Marianne J. Legato. *B.A., Manhattanville, 1956; M.D., New York University 1962*
Michelle P. Warren (also Obstetrics & Gynecology). *B.A., Mt. Holyoke, 1961; M.D., Cornell. 1965*

Associate Clinical Professors

Albert Attia. *B.A., Cornell, 1955; M.D., 1958*
Carlton Boxhill. *B.A., Columbia, 1964; M.D., 1968*
Norman A. Cagin. *B.S., Rutgers, 1963; M.D., New York Medical College, 1967*
Airlie A. Cameron. *B.A., Radcliffe, 1957; M.D., McGill, 1961*
Richard Collens. *B.S., Massachusetts Institute of Technology, 1959; M.D., New York Medical College, 1966*
George Dermksian. *B.A., Columbia, 1948; M.A., 1950; M.A., Tulane, 1950; M.D., Cornell, 1954*
James B. Gabriel. *B.A., Brown, 1945; M.D., Harvard, 1949*
Oscar Garfein. *B.A., Columbia, 1961; M.D., 1965*
Arthur Karanas. *B.A., New York University, 1954; M.D., State University of New York (Downstate), 1958*
Ronald Kraft. *B.S., Michigan, 1966; M.D., Cincinnati, 1970*
Arthur J. Lennon. *B.A., Fordham, 1956; M.D., Columbia, 1960*
Mary Elizabeth O'Brien. *B.A., Vassar, 1973; M.D., Harvard, 1977*
Myron C. Patterson. *B.A., Columbia, 1939; M.D. 1943*
Bruce H. Pinkernell. *B.A., Johns Hopkins, 1960; M.D., 1964*
Norton S. Rosensweig. *B.A., Princeton, 1957; M.D., New York University, 1961*

Jean W. Saleh. *B.A., St. Joseph (Beirut), 1957; M.D., Faculte' Francaise de Medecine, 1964*
Eugene Santilli. *B.S., City College of New York, 1958; M.D., Medical University of Bologna, 1964*
Lawrence Scharer. *B.A., Columbia, 1954; M.D., 1958*
Seiichi Shimomura. *M.D., Okayama (Japan), 1945*
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Assistant Professors

Beatrice De La Fuente. *B.S., Miguel Angel Institute (Mexico), 1966; M.D., National Autonomous University (Mexico), 1973*
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Assistant Professor of Clinical Physiology & Cellular Biophysics

Jahar Bhattacharya. *M.B.,B.S., India Institute of Medicine (New Delhi), 1968; M.S., Oxford, 1973; Ph.D., 1973*

Assistant Professors of Clinical Medicine

Tamar F. Barlam. *B.S., City University of New York, 1977; M.D., Rochester, 1979*
Bertha Ann Bauer. *B.A., Smith, 1973; M.D., Columbia, 1977*
Edward W. Colt. *M.D., University of London, 1962*
Michael S. Conjalka. *B.S., Indiana, 1962; M.D., Northwestern, 1973*
Robin Jane Dibner. *B.S., Michigan, 1974; M.D., Wayne State, 1979*
Edward Eden. *M.B.,B.S., St. Mary's Hospital Medical School, 1975*
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Ann Geller. *M.A., Oxford, 1957; M.D., University of London, 1960*
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Christopher Hoy. *A.B., Harvard, 1971; M.S., London School of Economics, 1972; M.D., Albert Einstein, 1977*
Gregg Armin Husk. *B.S., Chicago, 1970; M.D., 1975*
Gertrude Scott Lefavour. *B.A., Goucher, 1965; M.D., Medical College of Pennsylvania, 1970*
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Harvey Benovitz. *B.A., Washington and Jefferson, 1958; M.D., Albert Einstein, 1962*
Robert Bernot. *B.A., Columbia, 1955; M.D., State University of New York (Buffalo), 1960*
Earl B. Brown. *B.S., Emory, 1938; M.D., 1942*
Richard Gunnar Carlson (also Pediatrics). *B.S., Trinity (Hartford), 1966; M.D., Columbia, 1970*
David Stewart Carroll. *B.A., Colgate, 1969; M.D., Columbia 1973*

Daniel S.J. Choy. *B.A., Columbia, 1944; M.D., 1949*
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Robert K. Emy. *B.A. New York University, 1952; M.D., Medical College of Virginia, 1957*
Donald R. Fishman. *B.A., Rochester, 1969; M.D., Pennsylvania, 1973*
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Richard P. Fried. *B.A., Brown, 1964; M.D., Columbia, 1968*
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Richard Geltman. *B.A., Rutgers, 1967; M.D., Albert Einstein 1971*
Joseph D. Granderson. *B.S., City University of New York, 1971; M.D., Albert Einstein, 1975*
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George Haroutiounian. *B.A., Queens, 1975; M.D., Rochester, 1979*
Julian B. Hyman. *B.A., Columbia, 1945; M.D., State University of New York (Albany), 1947*
Michael R. Irwin. B.*B.A., Texas, 1968; M.D., Texas Southwestern, 1975*
John H. Keating, Jr. *B.A., Columbia, 1941; M.D., 1943*
Annetta J. Kimball. *B.A., Mt. Holyoke, 1964; M.D., Boston, 1968*
Mark Henry Kinn. *B.A., Brooklyn, 1972; M.D., New York University, 1977*
Edith Joan Langner. *B.A., Michigan, 1965; M.D., New York University, 1969*
Sharon Lewin. *M.D., Toronto, 1975*
Barbara K. Lipton. *B.S., Massachusetts Institute of Technology, 1977; M.D., State University of New York (Buffalo), 1981*
John Reginald Little. *M.B.,Ch.B., Otego (New Zealand), 1959; Ph.D., 1965*
Robert P. Lombardo. *B.S., Notre Dame, 1966; M.D., New York Medical College, 1970*
Athanasius Mallios. *B.A., Columbia, 1968; M.D., State University of New York (Upstate), 1973*
David K. Meriney. *B.A., Duke, 1956; M.D., 1960*
Robert Allen Meyers. *B.A., Darthmouth, 1972; B.M.S., 1974; M.D., Columbia, 1976*
Lawson A. Moyer, III. *B.A., Virginia, 1968; M.D., 1972*
Carl H. Nacht. *B.S., State University of New York (Stony Brook), 1971; M.D., Temple, 1976*
Thomas M. Nall. *B.A., Wesleyan, 1955; M.D., Cornell, 1959*
William M. Nicholas. *B.A., Williams, 1950; M.D., State University of New York (Syracuse), 1954*
Paul Martin Nonkin. *B.A., New York University, 1950; M.D., New York Medical College, 1954*
Mary Margaret O'Sullivan. *B.A., Fordham, 1971; M.D. Cornell, 1975*
John J. Olichney. *B.S., Rutgers, 1965; M.D., State University of New York (Albany), 1969*
Angela A. Palazzo. *B.S., Fairleigh Dickenson, 1975; M.D., State University of New York (Downstate), 1980*
Barbara Lynn Parks. *B.A., Wisconsin, 1971; M.D., 1978*
Anthony J. Pepe. *B.S., St John's (New York), 1966; M.D., Columbia, 1970*
Arnold Morris Phillips. *B.S., Massachusetts Institute of Technology, 1974; M.D. Columbia, 1978*
Robert B. Roven. *B.A., Columbia, 1953; M.D. 1957*
Nancy Roistacher. *M.D. New York Medical College 1975*
Peter J. Santogade. *M.D., Wisconsin, 1978*
Morton Schwimmer. *B.A., Lafayette (Pennsylvania), 1948; M.D., Jefferson, 1951*
Mark V. Sherrid. *B.A., Cornell, 1969; M.D., Columbia, 1972*
Kenneth N. Weinstein. *B.A., Vermont, 1955; M.D., New York University, 1959*
William P. Winkler. *B.S., Brown, 1972; M.S., Polytechnic Institute of New York, 1974; M.D., Columbia, 1978*
Michelle L. Winter. *B.A., Barnard, 1971; M.D., Cornell, 1975*
David Wolinsky. *B.A., Columbia, 1974; M.D., 1978*
Franklin H. Zimmerman. *B.A., Brown, 1976; M.D., 1980*

Associate Research Scientists

Thalia Boussios. *B.S., Columbia, 1965; M.S., New York University, 1977; Ph.D., 1978*

Bonnie Bray. *B.S., Georgia, 1950; Ph.D., Columbia, 1963*
Yoritaro Inada. *D.V.M., School of Veterinary Medicine (Tokyo), 1969; Ph.D., 1975*
M. Saeed Khan. *M.S., Brown, 1964; Ph.D., Imperial College of Science and Technology (London), 1966*
Bruce R. Lages. *B.S., Stevens Institute of Technology, 1964; M.S., 1967; Ph.D., 1972*
Mohan Muthireval Reddy. *B.S., Agricultural College (India), 1963; M.S., Indian Agricultural Research Institute, 1966; Ph.D., Chicago, 1969*
Mei-Uih Yang. *B.Ed., National University of Taiwan, 1959; M.S., Columbia, 1967; Ph.D., 1976*
Kwo-Yih Yeh. *B.S., National University of Taiwan, 1965; Ph.D., Washington (St. Louis), 1975*

SPECIAL LECTURERS

William S. Clark, M.D.
A. Gregory Jameson, M.D
Henry G. Shaffeld, M.D.
Myron Wright, M.D.

LECTURERS

Martin Finkel, M.D.
David Schwimmer, M.D.

ASSOCIATES IN CLINICAL MEDICINE

Jeannine B. Albu, M.D.
Lisa E. Babitz, M.D.
Vernon G. Baker, M.D.
Michael S. Baum, M.D.
Elizabeth Jane Beautyman, M.D.
Michael Borecky, M.D.
John Thomas Cappadona, M.D.
Paul Chrzanowski, M.D.
Albert Cohen, M.D.
John Cornwall, M.D.
Jane-Iris R. Farhi, M.D.
Jeanne Fastook, M.D.
James W. Fingerhut, M.D.
Eugene Freundlich, M.D.
Youssef Ghassibi, M.D.
Andrew M. Goldmann, M.D.
Maurice F. Goodbody, M.D.
Carolyn E. Goodstein, M.D.
Barry E. Goozner, M.D.
Antoine C. Harovas, M.D.
Karl R. Hoffman, M.D.
Herbert Ivan Jernow, M.D.
Alan Bruce Kadet, M.D.
John Liu, M.D.
George F. McKinley, M.D.
Woodson Charles Merrell, M.D.
Nicholas H. E. Mezitis, M.D.
Laura K. Millman, M.D.
Thomas C. Moore III, M.D.
Kenneth R. Ong, M.D.
Norman C. Peeler, M.D.
Michael I. Rauchman, M.D.
Guy A. Renvoize, M.D.
Nicholas Steiner, M.D.
Anuradha Suri, M.B.B.S.
Thomas Tamlyn, M.D.
Walter Gabriel Wasser, M.D.

INSTRUCTORS IN CLINICAL MEDICINE

Joseph R. Ades, M.D.
Eric Andreae, M.D.
Elliot Arons, M.D.
Lestrino C. Baquiran, M.D.
David Barenberg, M.D.
Hillard M. Boskey, M.D.
Valerie A. Brackett, M.D.
Cecil B. Broderick, M.D.
Daniel L. Brook, M.D.
Susan B. Carol, M.D.
Roy D. Cavalcant, M.D.
Daniel Henry Cohen, M.D.
John Cohn, M.D.
Hugh C. Davidson, M.D.
Pedro De Armas, M.D.
Luziano Del Guzzo, M.D.
Margaret Dessau, M.D.
William E. Edelheit, M.D.
Alan D. Egelman, M.D.
Jerome Paul Ehrlich, M.D.
Arthur Englard, M.D.
Jason Faller, M.D.
Stuart W. Forster, M.D.
Etta Rae B. Frankel, M.D.
Dennis Gage, M.D.
Aron Goldman, M.D.
Stewart W. Greisman, M.D.
Martin J. Hecht, M.D.
Wade A. Johnson, M.D.
Mitchell Kahn, M.D.
Robert Stanley Karol, M.D.
Martin Philip Kasofsky, M.D.
Jeanne Florence Kassler, M.D.
Marcel Laufer, M.D.
James David Lax, M.D.
Andrew C. Leifer, M.D.
Alfred Miller, M.D.
Grace Y. Minamoto, M.D.
Richard Ross Neufeld, M.D.
Lazare Novack, M.D.
Annette Osher, M.D.
Sonia M. Perez-Padilla, M.D.
Martin Saul Pine, M.D.
Lonny Reisman, M.D.
Ernest C. Richards, M.D.
Harry A. Roselle, M.D.

INSTRUCTORS *(continued)*

Barry Richard Rudin, M.D.
Gabriel A. Sara, M.D.
Carol B. Schreck, M.D.
Howard N. Schwartz, M.D.
Kent A. Sepkowitz, M.D.
Michael S. Siegal, M.D.
Janice E. Siglin, M.D.
Gregory B. Steinberg, M.D.
Thomas V. Tupper, M.D.
Steven J. Weiss, M.D.
Michael J. Wiechowski, M.D.
Daniel C. William, M.D.
Paul E. Wiseman, M.D.

Microbiology

Professor and Acting Chairman

Saul J. Silverstein. *B.S., Cornell, 1968; Ph.D., Florida, 1971*

Professors

Frederick W. Alt (also Microbiology). *B.S., Brandeis, 1971; Ph.D., Stanford, 1978*
Kathryn L. Calame (also Biochemistry & Molecular Biophysics). *B.S., Missouri, 1962; M.S., George Washington, 1965; Ph.D., 1975*
Dickson D. Despommier (in Public Health). *Ph.D., Notre Dame, 1967*
Bernard F. Erlanger. *B.S., College of the City of New York, 1943; M.A., New York University, 1948; Ph.D., Columbia, 1951*
Gabriel C. Godman (also Microbiology). *B.A., New York University, 1941; M.D., 1944*
Maxwell E. Gottesman (Charles H. Revson Professor) (also Biochemistry). *B.A., Swarthmore, 1956; M.D., Yale, 1960; Ph.D., 1965*
Benvenuto Pernis (also Medicine). *M.D., Milan, 1947*

Associate Professors

Philip A. D'Alesandro (also Public Health). *B.S., Rutgers, 1952; M.D., 1954; Ph.D., Chicago, 1958*
David H. Figurski. *B.S., Pittsburgh, 1969; Ph.D., Rochester, 1974*
Vincent Racaniello. *B.A., Cornell, 1974; Ph.D., Mt. Sinai, 1979*
Howard A. Shuman. *B.S., Massachusetts, 1974; Ph.D., Harvard, 1979*
Charles Stuart Hamish Young. *B.A., Oxford, 1966; Ph.D., 1969*

Assistant Professors

William L. Cleveland. *B.S. Columbia, 1967; Ph.D., Rutgers, 1975*
Alexander D. Goldfarb. Diploma, Moscow State University, 1969; *Ph.D., Weizmann Institute (Israel), 1980*
Aaron P. Mitchell. *B.S., Carnegie-Mellon, 1977; Ph.D., Massachusetts Institute of Technology, 1984*
David M. Shore. *B.A., Harvard, 1977; Ph.D., Stanford, 1983*
Lorraine S. Symington (in the Institute for Cancer Research). *B.S., Glasgow, 1975; Ph.D., Sussex, 1982*

Associate Research Scientist

Ruth A. Bryan. *B.A., New York University, 1972; Ph.D., Yale, 1982*

SPECIAL LECTURERS

Paul Ellner, Ph.D.
Harold Ginsberg, M.D.
Elvin A. Kabat, Ph.D.
Wladyslaw Manski, D.Sc.
Henry Vogel, Ph.D.

SENIOR LECTURER

Russell E. MacDonald, Ph.D.

At Harlem Hospital Center

Associate Clinical Professor of Pathology

Angus Sampath. *D.Sc., Strasbourg, 1966*

At St. Luke's-Roosevelt Hospital Center

Senior Research Scientist

George A. Hashim (also Surgery). *Ph.D., Columbia, 1967*

Neurological Surgery

Byron Stookey Professor and Chairman

Bennett M. Stein. *B.A., Dartmouth, 1952; M.D., McGill, 1955*

At Presbyterian Hospital

Professors of Clinical Neurological Surgery

Peter W. Carmel. *B.A., Chicago, 1956; M.D., New York University, 1960*
James W. Correll. *B.A., Brown, 1941; M.D., Cornell, 1944*
Edgar M. Housepian. *B.A., Columbia, 1949; M.D., 1953*
Kalmon Post. *B.A., Columbia, 1963; M.D., New York University, 1967*
Donald Oliver Quest. *B.S., Illinois, 1961; M.D., Columbia, 1970*

Professor of Clinical Psychiatry

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Associate Professors of Clinical Neurological Surgery

James G. McMurtry, III. *B.A., Rice, 1953; M.D., Baylor, 1957*
W. Jost Michelson. *B.A., Harvard, 1959; M.D., Columbia, 1963*

Assistant Professor

Robert A. Solomon. *B.A., Yale, 1976; M.D., Johns Hopkins, 1980*

Assistant Professors of Clinical Neurological Surgery

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Assistant Clinical Professor

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INSTRUCTORS IN CLINICAL NEUROLOGICAL SURGERY

Duncan B. Carpenter, M.D.
Saran S. Rosner, M.D.
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At Mary Imogene Bassett Hospital

Assistant Clinical Professors

Bruce Stephens Harris. *M.D., Hahnemann, 1968*
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Assistant Clinical Professors

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INSTRUCTOR IN CLINICAL NEUROLOGICAL SURGERY
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Professors

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Arthur Karlin (Eugene Higgins Professor) (also Biochemistry & Molecular Biophysics and Neurology). *B.A., Swarthmore, 1957; Ph.D., Rockefeller, 1962*
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Audrey S. Penn. *B.A., Swarthmore, 1965; M.D., Columbia, 1960*
James H. Schwartz (also Physiology & Cellular Biophysics) (in the Center for Neurobiology & Behavior). *B.A., Columbia, 1954; M.D., New York University, 1959; Ph.D., Rockefeller, 1964*

Robert K.S. Wong. *B.S., McGill, 1970; Ph.D., Alberta, 1975*

Adjunct Professor

Roger Traub. *B.A., Princeton, 1967; M.D., Pennsylvania, 1972*

Professors of Clinical Neurology

Abe Chutorian (also Pediatrics). *B.A., Manitoba, 1949; B.S., 1952; M.D., 1957*
Arnold Gold (also Pediatrics). *B.A., Texas, 1947; M.S., Florida, 1949; M.D., Lausanne, 1950*
James F. Hammill. *B.S., LaSalle, 1947; M.D., Pennsylvania, 1948*
Jay P. Mohr (Daniel Sciarra Professor). *B.A., Haverford, 1958; M.S., Virginia, 1963; M.D., 1963*
Timothy A. Pedley. *B.A., Pomona, 1965; M.D., Yale, 1969*
Daniel Sciarra. *B.A., Harvard, 1940; M.D., 1943*

Professor of Clinical Psychiatric Social Work

Janet B. Williams (also Psychiatry). *B.S., Tufts, 1969; M.S., Columbia, 1974; D.S.W., 1981*

Clinical Professors

Robert E. Barrett. *B.A., William and Mary, 1953; M.D., Medical College of Virginia, 1957*
Robert A. DeNapoli. *M.D., Harvard, 1954*
Linda D. Lewis. *B.S., Bethany, 1961; M.D., West Virginia, 1965*
Joseph L. O'Brien. *M.D, Cornell, 1950*

Associate Professors

Eduardo Bonilla. *B.A., San Simon (Bolivia), 1957; M.D., Javerina (Bogota), 1964*
Lucien J. Cote (also Rehabilitation Medicine). *B.S., Vermont, 1951; M.D., 1954*
Norman Latov. *B.A., Columbia, 1970; M.D., Pennsylvania, 1975; Ph.D., 1975*

Adjunct Associate Professor

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Associate Professor of Clinical Neurochemistry

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Associate Professors of Clinical Neurology

Gary Abrams. *B.S., State University of New York (Buffalo), 1970; M.D., Pittsburgh, 1974*
Ronald G. Emerson (also Pediatrics). *B.S., Bates, 1971; M.D., New York University, 1975*
Edward B. Healton. *B.S., Oregon, 1964; M.D., Creighton, 1968*
William G. Johnson. *B.A., Princeton, 1963; M.D.,Columbia, 1967*
Richard Mayeux. *B.S., Oklahoma State, 1968; M.D., 1972*
James R. Miller. *B.A., Amherst, 1960; M.D., New York University, 1964*

Associate Professors of Clinical Neuropsychology

Isak Prohovnik (in Psychiatry and Radiology). *M.Sc., Lund (Sweden), 1980, Ph.D., 1981*
Nancy Sabin Wexler (also Psychiatry). *B.A., Radcliffe, 1967; Ph.D., Michigan, 1970*

Associate Clinical Professors

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Marcelo Olarte. *B.S., Marist Brothers, 1962; M.D., Cuyo, 1970*

David L. Sagman. *A.B., Hamilton 1955; M.D., Virginia, 1959*
Joseph H. Willner. *B.A., Hamilton College, 1966; M.D., New York University, 1970*

Assistant Professors

Carolyn B. Britton. *B.A., Oberlin, 1968; M.S., New York University, 1975; M.D., 1975*
Robert Burke. *B.A., Dartmouth, 1971; M.D., Cornell, 1975*
Jean L. Cadet (also Psychiatry). *M.D., Columbia, 1979*
Bruce J. Fisch. *B.A., Indiana, 1974; M.D., 1978*
Joseph Herbert (Irving Assistant Professor of Neurology) (also Pathology) (Neuropathology). *B.S., Hebrew (Jerusalem), 1971; M.D., 1975*
Dale Joseph Lange. *B.S., Siena College (Loudonville, NY), 1974; M.D., New York Medical College, 1978*
Karen S. Marder. *A.B., Cornell, 1979; M.D., 1983*
Richard Miles. *B.S., London, 1972; M.S., London, 1976; Ph.D., Bristol, 1981*
Torbjoern G. Nygaard. *B.S., Worcester Polytechnic Institute, 1975; M.D., Case Western Reserve, 1980*
Michael R. Pranzatelli. *B.S., B.A., Duquesne, 1972; M.D., Pennsylvania State, 1976*
Seth Pullman. *B.S., McGill, 1975; M.D., 1979*
Ralph Sacco. *B.S., Cornell, 1979; M.D., Boston, 1983*
Mary Sano. *B.S.S.S., Amherst, 1974; M.A., New York University, 1980; Ph.D.,1986*
Mark L. Scheuer. *B.S., Pennsylvania, 1978; M.D. Chicago, 1983*
Jan Wollack (also Pediatrics). *B.S., Yale, 1975; M.D., Ph.D., Columbia, 1981*
David S. Younger. *B.S., Michigan, 1976; M.D., Columbia, 1981*

Assistant Professor of Genetics & Development

Eric A. Schon. *B.S., Columbia, 1968; M.S., Cincinnati, 1973; Ph.D., 1982*

Assistant Professor of Neurogenetics

T. Conrad Gilliam (also in Psychiatry). *Ph.D., Missouri, 1981*

Assistant Professor of Neuropathology

Ruth M. Gubits. *M.S., 1978, Albert Einstein, 1978; Ph.D., 1982*

Assistant Professors of Clinical Neurology

Susan B. Bressman. *B.A., Barnard, 1973; M.D., Columbia, 1977*
Mitchell F. Brin. *B.A., Pennsylvania, 1975; M.D., Columbia, 1979*
Mathew E. Fink. *B.A., Pennsylvania, 1972; M.D., Pittsburgh, 1976*
Paul Greene. *B.S., Massachusetts Institute of Technology, 1967; M.S., Yale, 1975; M.D., Connecticut, 1980*
Ramamohana Kairam (also Pediatrics). *M.B.,B.S., Andhra Medical College (India), 1979*
Laura Lenihan. *B.A., Harvard, 1974; M.D., Cornell, 1978*
Theodore A. List. *B.A., Kalamazoo, 1963; M.D., Michigan, 1967*
Stanley R. Resor, Jr. *B.A., Yale, 1967; M.D., Columbia, 1972*
Thomas K. Tatemichi. *B.A., Brown, 1974; M.D., Cornell, 1978*

Assistant Professor of Clinical Neuropsychology

Yaakov Stern. *B.A., Tuoro College, 1975; M.A., City University of New York, 1982; Ph.D., 1983*

Assistant Clinical Professors

Frank Boschenstein. *B.A., Toronto, 1950; M.D., 1954*
Eugenia E. Gamboa. *B.A., Philippines, 1961; M.D., 1966*

Stanley W. Holstein. *B.S., George Washington, 1963; M.D., Georgetown, 1967*
Charles R. Plank. *B.A., Oklahoma, 1961; M.D., 1965*
Aaron Rabin. *B.A., Yeshiva, 1967; Ph.D., Rockefeller, 1974; M.D., Albert Einstein, 1976*
Kuldip P. Sachdev. *M.B.,B.S., Agra (India), 1957; M.D., Punjab, 1962*
Stephen G. Shafer (also Public Health) (in the Sergievsky Center). *B.A., Harvard, 1966; M.D., Columbia, 1970; M.P.H., 1977*

Associate Research Scientists

Mercy Mascreen Davidson. *B.S., Madras (India), 1968; M.S., 1970; Ph.D., 1979*
Sara Shanske. *B.A., California (Los Angeles), 1967; Ph.D., Albert Einstein, 1977*
Armin Stelzer. *M.D., Ph.D., Hamburg (Germany), 1982*
Guy Valiquette. *B.A., Montreal, 1967; M.D., McGill, 1972*

LECTURER

Robert E. McMasters, M.D.

ASSOCIATE

Larry Benardo, M.D.

ASSOCIATES IN CLINICAL NEUROLOGY

Claudia Chiriboga-Klein, M.D.
Sidney M. Cohen, M.D.
Stephen Carl Klass, M.D.

ASSOCIATES *(continued)*

Stanley Lesse, M.D.
Glenn M. Seliger, M.D.
Heidi Shale, M.D.
Robert Wolff, M.D.

INSTRUCTORS IN CLINICAL NEUROLOGY

Damon N. Fellman, M.D.
Todd Sacktor, M.D.
Gerald J. Smallberg, M.D.

At Mary Imogene Bassett Hospital

Associate Clinical Professor

Lewis L. Hamilton. *B.S., Yale, 1960; M.D., Columbia, 1964*

Assistant Clinical Professors

Paul M. Deringer. *B.A., Columbia, 1971; M.D., 1975*
Mary Ann Whelan. *B.A., Radcliffe, 1961; M.A., Harvard, 1969; Ph.D., 1972; M.D., Dartmouth, 1976*

At Harlem Hospital

Professor of Clinical Neurology

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Associate Clinical Professor

Alfred C. Bannerman. *B.Sc., Edinburgh, 1963; M.B.,Ch.B., 1966*

Assistant Clinical Professors

Bertel Bruun. *M.D., Copenhagen, 1964*
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Clinical Professor

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Associate Clinical Professor

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Willard C. Rappleye Professor and Chairman

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Professors

Mieczyslaw Finster (also Anesthesiology). *B.A., Gymnasium (Poland), 1941; M.D., Geneva, 1957*

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Professors of Clinical Obstetrics & Gynecology

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Clinical Professor

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Raphael Jewelewicz. *M.D., Hebrew (Jerusalem), 1960*
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Associate Clinical Professors

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Ralph J. Hessekiel. *B.S., Queens, 1950; M.D., State University of New York (Downstate), 1954*
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Wolfgang Tretter. *M.D., Heidelberg, 1952*

Assistant Professors

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Michael C. Darder. *B.A., Rutgers, 1973; M.S., 1975; M.D., Loyola, 1983*
Jye-Siung Fang. *B.S., National University of Taiwan, 1962; Ph.D., Kansas State, 1971*
Frederick A. Gonzalez. *B.S., Boston, 1972; M.D., Columbia, 1976*
Amalia C. Kelly. *B.A., Bard, 1975; M.D., Tufts, 1979*
David B. Peisner. *M.S., Wayne State, 1978*
Mary L. Ruess. *B.S., Pennsylvania, 1973; M.D., Thomas Jefferson, 1978*
Christina Ruegsegger Veit. *B.S., Simmons, 1975; M.D., Munich, 1981*
Wendy Warren. *B.A., Wellesley, 1978; M.D., Cornell, 1982*
Carolyn L. Westhoff. *B.S., Michigan, 1972; M.D., 1977*

Assistant Professor of Biochemistry & Molecular Biophysics

Richard K. Assoian (also in the Center for Reproductive Sciences). *B.A., Johns Hopkins, 1975; Ph.D., Chicago, 1981*

Assistant Professors of Clinical Obstetrics & Gynecology

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Hilda Yvonne Hutcherson. *B.A., Stanford, 1976; M.D., Harvard, 1980*
John P. Koulos. *B.S., Northwestern, 1974; M.D., 1978*
Steven H. Lewis (also Pathology). *B.A., Boulder, 1977; M.D., 1981*
Andrew Loucopoulos. *M.D., Athens, 1970*
Frances Marks. *B.S., Fairleigh Dickinson, 1978; M.D., Columbia, 1982*
Kevin B. Reilly. *B.S., Fairfield (Connecticut), 1966; M.D., Michigan, 1970*
Meredith F. Sirmans. *B.A., Lincoln, 1961; M.D., Meharry, 1965*
Daniel H. Smith. *M.D., Harvard, 1972*

Assistant Clinical Professors

Valerie Burke. *B.A., Barnard, 1977; M.D., Mt. Sinai, 1981*
Frederick S. Clare. *B.A., McGill, 1968; M.B.,B.S., West Indies (Jamaica), 1973*
Maritza Cruz. *M.D., Harvard, 1983*
Reinaldo Figueroa. *B.A., Cornell, 1981; M.D., Universidad del Caribe, 1987*
Marvin T. Grody. *B.A., Pennsylvania, 1943; M.D., 1946*
Coleman Henley, Jr. *B.A., State University of New York (Buffalo), 1966; M.D., Howard, 1970*
Claudia Holland. *B.A., Harvard, 1977; M.D., Mt. Sinai, 1981*
Sarah H. Kelly. *B.A., Miami, 1970; M.A., Indiana, 1971; M.S., 1978; M.D., 1978*
Anita Parnes La Sala. *B.A., Radcliffe, 1976; M.D., Columbia, 1980*

Juan S. Lopez. *B.S., Ulises Espaillat College (Dominican Republic), 1954; M.D., Autonomous (Santo Domingo), 1962*
Lauri J. Romanzi. *M.D., Eastern Virginia, 1984*
Rafael A. Tejeda. *B.S., Santo Domingo, 1955; M.D., 1962*
Justin C. Terra. *M.D., Rome (Italy), 1955*
Jose F. Torres. *B.S., Lyceum, Jose Joaquin Perez (Santo Domingo), 1945; M.D., Santo Domingo, 1951*

Associate Research Scientist

Weng Kong Sung. *B.S., Pin Ton Institute, 1963; Ph.D., Hokkaido, 1975*

SPECIAL LECTURERS

Henry Clay Frick, II, M.D.
Seymour Lieberman, Ph.D.
David B. Moore, M.D.
Equinn Munnell, M.D.

LECTURERS

Arnold N. Fenton, M.D.
John L. Lewis, Jr., M.D.

ASSOCIATE IN CLINICAL OBSTETRICS & GYNECOLOGY

Lawrence J. Severino, M.D.

INSTRUCTORS IN CLINICAL OBSTETRICS & GYNECOLOGY

Stephanie C. Buck, M.D.
Janis Enzenbacher, M.D.
David Alan Gluck, M.D.
Unjeria C. Jackson, M.D.
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At Mary Imogene Bassett Hospital

Assistant Clinical Professors

Douglas H. Barns. *B.S., St. Lawrence, 1950; M.D., Cornell, 1954*
Mark Elliott Heller. *B.A., Lehigh, 1969; M.D., State University of New York (Buffalo),1973*
Balazs Selendy. *M.D., Louvain (Belgium), 1964*

At Harlem Hospital

Professor of Clinical Obstetrics & Gynecology

Sterling B. Williams. *M.S., Northern Illinois, 1966; M.D., Arkansas, 1973*

Associate Professor of Clinical Obstetrics & Gynecology

Hiroko T. Felton. *M.D., Kansai (Japan), 1955*

Associate Clinical Professor

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Assistant Professors of Clinical Obstetrics & Gynecology

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Young Sook Cho. *M.B., Yonsei, 1955; M.D., 1959*
Nomenida A. Lazaro. *B.S., Santo Tomas (Philippines), 1960; M.D., 1965*
Janet L. Mitchell, *A.B., Mt. Holyoke, 1972; M.D., Howard, 1976; M.P.H., Harvard, 1987*
Esther Suarez. *A.A., Santo Tomas (Philippines), 1955; M.D., 1960*
Alfred J. Williams. *B.A., Howard, 1960; M.D., Meharry, 1964*

Assistant Clinical Professors

Hasi Das. *M.B.,B.S., Calcutta (India), 1964*
Trishii Mukharjee. *M.B.,B.S., Calcutta, 1965; M.D., 1962*
Istvan P. Tornai. *M.D., Medical Sciences University (Hungary), 1955*
Pisan Unchalipongse. *M.D., Chiengma Medical School (Thailand), 1965*

INSTRUCTORS IN CLINICAL OBSTETRICS & GYNECOLOGY

Kwadwo Boakye, M.D.
Gina M. Brown, M.D.
Kok Chung Chang, M.D.
Karlene Chin Quee, M.D.
Sitaram Vithal Chitnis, M.D.
Tommy Harris, M.D.
Iris Huggins, M.D.
Barbara Lanzara, M.D.
Ashalatha Mital, M.B.B.S.
Thomas Murray, M.D.
Rajasingham Rahulatharan, M.D.
Paula A. Randolph, M.D.
Sandra Alexis Semple, M.D.
Barbara C. Toppin, M.D.
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Professor

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Associate Professor of Clinical Obstetrics & Gynecology

Michelle P. Warren (also Medicine). *B.A., Mount Holyoke, 1961; M.D., Cornell, 1965*

Associate Clinical Professors

Hussein K. Amin. *M.B.,Ch.B., Alexandria (Egypt), 1955*
Mamdough Moukhtar. *M.D., Ainshams (Cairo), 1955; M.A.,B.S.C., Oxford, 1964*
Haider Hussein Shamsi. *M.B.,B.S., King Edward Medical College (Pakistan), 1965*

Assistant Professor

Maureen Killackey. *B.A., Barnard, 1974; M.D., Cornell, 1978*

Assistant Professors of Clinical Obstetrics & Gynecology

Terusada Horiguchi. *M.D., Keio (Tokyo), 1961*
Ivan K. Strausz. *M.B.,Ch.B., Capetown, 1958*

Assistant Clinical Professors

David B. Crawford. *B.S., North Carolina, 1943; M.D., New York University, 1946*
Ivan J. Jacobson. *B.A., Belgrade (Yugoslavia), 1948; M.D., 1955*
Gyula Nemes. *B.A., Gymnasium Szekesfehervar, 1946; M.D., Budapest, 1954*
Marcia L. Storch. *B.A., Bryn Mawr, 1955; M.D., Woman's Medical College of Pennyslvania, 1973*
Ian G. Van Praagh. *M.D., Toronto, 1955*
Riley W. Waller. *B.S., LeMoyne, 1943; M.D., Howard, 1947*

LECTURERS

Naif K. Basile, M.D.
Charles H. Debrovner, M.D.
Richard A. Ruskin, M.D.
Fouad Surur, M.B.,Ch.B.

ASSOCIATES IN CLINICAL OBSTETRICS & GYNECOLOGY

Dov B.S. Goldstein, M.D.
Bernardo Handszer, M.D.

INSTRUCTORS IN CLINICAL OBSTETRICS & GYNECOLOGY

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Terry L. Andrews, M.D.
Howard Balick, M.D.
Ronald D. Blatt, M.D.
Felipe Bozzo, M.D.
Gloria Castillo-Campbell, M.D.
John Clark, M.D.
Satwant Kaur Dhamoon, M.R.C.O.G.
Paul Filipescu, M.D.
Susan L. Grant, M.D.
Amtul R. Hussein, M.D.
Joseph Iwanicki, M.D.
Juanita Jenyon, M.D.
Jay Joel Kelinson, M.D.
Lawrence D. Kramer, M.D.
Olivia Lermand, M.D.
Leon Lewenstein, M.D.
Ellen Manos, M.D.
Karlheinz Moehlen, M.D.
Robin L. Molsberry, M.D.
Alan Morris, M.D.
Lillian D. Nash, M.D.
Diana Oquendo, M.D.
Benu Pascariu, M.D.
Jane M. Ponterio, M.D.
Vicar Qureshi, M.D.
George S. Radney, M.D.
Jaana V. Rehnstrom-Blane, M.D.
Ronald J. Reiss, M.D.
Irving Ward Robinson, M.D.
Arnold Roufa, M.D.
Peter S. Sailon, M.D.
Moshe Salomy, M.D.
Malca Sane, M.D.
Claudia A. Useda, M.D.
Alvin C. Wesley, M.D.
Mary E. Wilson, M.D

Ophthalmology

Edward S. Harkness Professor and Acting Chairman

Anthony Donn. *B.S., Yale, 1947; M.D., Columbia, 1952*

At Presbyterian Hospital

Professor

Peter Gouras. *B.A., Johns Hopkins, 1951; M.D., 1955*

Professor of Ocular Physiology

Laszlo Z. Bito. *B.A., Bard, 1959; Ph.D., Columbia, 1963*

Professor of Ophthalmic Biochemistry

Abraham Spector. *Ph.D., New York University, 1957*

Professor of Physiology & Cellular Biophysics

Jorge Fischbarg. *M.D., Buenos Aires, 1962; Ph.D., Chicago, 1971*

Professors of Clinical Ophthalmology

Myles M. Behrens. *B.A., Yale, 1958; M.D., Columbia, 1962*
R. Linsy Farris. *M.D., Duke, 1961*
Max Forbes. *B.A., Cornell, 1951; M.D., Chicago, 1957*
Francis A. L'Esperance, Jr. *B.A., Dartmouth, 1952; M.D., Harvard, 1956*
Harold F. Spalter. *B.A., Brown, 1951; M.D., Columbia, 1955*
B. Dobli Srinivasan. *Ph.D., Columbia, 1964; M.D., 1967*
Stephen Trokel. *B.A., Cornell, 1954; M.S., Rochester, 1956; M.D., 1959; Med. Sc.D., Columbia, 1965*

Associate Professor of Biophysical Ophthalmology

Charles J. Koester. *B.S., Carnegie Institute of Technology, 1950; Ph.D., Rochester,1955*

Associate Professor of Radiation Biology

Basil V. Worgul. *B.S., Miami, 1969; Ph.D., Vermont, 1974*

Associate Professors of Clinical Ophthalmology

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Andrew de Roetth, Jr. *B.S., Northwestern, 1943; M.D., 1946*
Sally Moore (Orthoptics). *B.S., Delaware, 1952; Orthoptics Certificate, 1965*
Lawrence Yannuzzi. *B.A., Harvard, 1959; M.D., Boston, 1964*

Associate Clinical Professors

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Jack M. Dodick. *M.D., Toronto, 1963*
John W. Espy. *B.S., Franklin and Marshall, 1953; M.D., Cornell, 1956*
Frank B. Hoefle. *B.A., Dartmouth, 1957; M.D., Harvard, 1961*
George M. Howard. *B.A., Dartmouth, 1952; M.D., State University of New York (Albany), 1959*
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Research Scientist

James P. Dillon. *B.S., Canisious, 1964; M.S., Columbia, 1973; Ph.D., 1974*

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Larry Liebovitch. *B.S., City College of New York, 1972; M.A., Harvard, 1973; Ph.D., 1978*

Assistant Professors of Clinical Ophthalmology

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Emil Wirostko. *B.S., Fordham, 1956; M.D., Cornell, 1960; Sc.D., Columbia, 1967*

Assistant Clinical Professors

Yale L. Fisher. *B.A., Cornell, 1964; M.D., 1967*
Albert Hofeldt. *B.S., Portland State, 1965; M.D., Oregon, 1969*
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Martin L. Leib. *B.S., Yeshiva, 1969; M.D., New York Medical College, 1974*
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Rainer N. Mittl. *M.D., Munich, 1964*
Hugh M. Moss. *B.A., Harvard, 1952; M.D., Pennsylvania, 1954*
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Associate Research Scientists

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Ira S. Jones, M.D.
Philip Knapp, M.D.
Wladyslaw Manski, D.S.
George R. Merriam, M.D.
Karl Meyer, M.D.

LECTURER

Gerald Weinstein, M.D.

ASSOCIATES IN CLINICAL OPHTHALMOLOGY

Richard D. Banyard, M.D.
Lisa G. Barbera, M.D.
Arthur M. Cotliar, M.D.
Pamela Frances Gallin, M.D.

ASSOCIATES *(continued)*

Donald H. Green, M.D.
John Carlson Merriam, M.D.
Lawrence G. Pape, M.D.
Jaime Santamaria, III, M.D.
Michael J. Weiss, M.D.

INSTRUCTORS IN CLINICAL OPHTHALMOLOGY

James D. Auran, M.D.
Stephen Doro, M.D.
George J. Florakis, M.D.
Cynthia J. Mackay, M.D.
Jeffrey G. Odel, M.D.
R. Theodore Smith, M.D.
Dean E. Stetz, M.D.

At Mary Imogene Bassett Hospital

Assistant Clinical Professor

Charles B. Deichman. *B.A., Massachusetts, 1963; M.D., State University of New York (Albany), 1969*

INSTRUCTORS IN CLINICAL OPHTHALMOLOGY

Paul M. Beer, M.D.
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Jack L. Weiss, M.D.

At Harlem Hospital

Assistant Professor of Clinical Ophthalmology

Herman C. Jordan. *B.A., Colgate, 1954; M.D., Howard, 1964*

ASSOCIATES IN CLINICAL OPHTHALMOLOGY

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Antonio M. Gonzales, M.D.
John P. Mitchell, M.D.
Ram P. Tiwari, M.S.

INSTRUCTORS IN CLINICAL OPHTHALMOLOGY

Milton Delerme, M.D.
Frantz Lerebours, M.D.
Cambiz T. Moazed, M.D.
Christopher A. Rice, M.D.

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Associate Clinical Professor

James C. Newton. *B.S., Fordham, 1949; Ph.D., 1953; M.D., Jefferson, 1957*

LECTURER

Dennis Freilich, M.D.

ASSOCIATES IN CLINICAL OPHTHALMOLOGY

Chin Wing Chu, M.D.
John Eden, M.D.

INSTRUCTORS IN CLINICAL OPHTHALMOLOGY

Louis V. Angioletti, Jr., M.D.
Ulises Arango, M.D.
Alan Charles Brown, M.D.
Robert C. Del la Rocca, M.D.
Bernard J. Fowler, M.D.
Bruce M. Hyman, M.D.
Richard D. Lester, M.D.
Kenneth E. Merhige, M.D.
Charles Merker, M.D.
Thomas O. Muldoon, M.D.
Robert P. Newhouse, M.D.
Satya D. Paul, M.D.
Rochelle L. Peck, M.D.
Steven M. Plotycia, M.D.
Chalermpong Sarakhun, M.D.
Celeste Schmucker-Karpow, M.D.
John R. Stabile, M.D.
Richard T. Sturm, M.D.
George Traykovski, M.D.
Howard K. Weisberg, M.D

Orthopedic Surgery

Frank E. Stinchfield Professor and Chairman

Harold M. Dick, *B.A., Princeton, 1956; M.D., New York University, 1960*

At Presbyterian Hospital

Professors of Mechanical Engineering and Orthopedic Bioengineering

Michael W. Lai. *B.S., National Taiwan University, 1953; M.S., Michigan, 1959; Ph.D., Michigan, 1962*
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Professors of Clinical Orthopedic Surgery

Nas Ser Eftekhar. *M.D., Teheran, 1960*
S. Ashby Grantham. *B.A., Washington (St. Louis), 1952; M.D., 1955*

Associate Professor of Orthopedic Biochemistry

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Associate Professors of Clinical Orthopedic Surgery

Hugo A. Keim. *B.S., St. Mary's (Minnesota), 1956; M.D., Loyola, 1960; M.S., Northwestern, 1966*
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Associate Clinical Professors

David L. Andrews. *B.A., Williams, 1952; M.D., Columbia, 1956*
Jean-Pierre C. Farcy. *M.D., Aix-Marseille, 1972*

Assistant Professors

Louis U. Bigliani. *B.A., Holy Cross, 1968; M.D., Loyola, 1972*
Eric C. Carlson. *B.M., Texas 1972; B.S., Southern Mississippi, 1977; M.D., Mississippi, 1981*
Gail S. Chorney. *B.A., Smith, 1974; M.D., Boston, 1978*
Evan L. Flatow. *B.A., Princeton, 1977; M.D., Columbia, 1981*
Michael Aloysius Kelly. *B.A., North Carolina, 1974; M.D., Georgetown, 1979*
Stephen J. McIlveen. *B.S., Fairleigh Dickinson, 1969; M.D., New York University, 1973*
Peter D. McCann. *B.A., Columbia, 1975; M.D., 1980*
Ohannes A. Nercessian. *B.S., Lehman, 1977; M.D., Columbia, 1981*
Donna P. Phillips. *B.A., Texas, 1976; M.D., Baylor, 1981*
Melvin P. Rosenwasser. *B.A., Johns Hopkins, 1972; M.D., Columbia, 1976*
David Price Roye, Jr. *B.A., Oklahoma, 1971; M.D., Columbia, 1975*

Assistant Professors of Clinical Orthopedic Surgery

Ronald P. Grelsamer. *B.S.,B.A., Brown, 1975; M.D., Columbia, 1979*
Howard A. Kiernan, Jr. *B.S., Holy Cross, 1962; M.D., New York University, 1966*
Bruce L. Sprague. *B.A., Princeton, 1960; M.D., Pennsylvania, 1964*

Assistant Clinical Professors

Peter Carbonara. *B.A., Columbia, 1953; M.D., Boston, 1957*
Robert N. Dunn. *B.A., Harvard, 1965; M.D., Columbia, 1969*
Merle H. Katzman. *B.S., Trinity (Connecticut), 1950; M.D., Jefferson, 1954*
Harvey Orlin. *M.D., State University of New York (Downstate), 1961*
Walter J. Pedowitz. *B.A., Lafayette, 1966; M.D., State University of New York (Downstate), 1971*
Robert M. Reiss. *B.A., Columbia, 1951; M.D., 1959*
Thomas Rodda. *B.A., King's College (Pennsylvania), 1957; M.D., Loyola, 1961*
Joseph E. Salvatore. *M.D., Hahneman, 1955; M.S., Tennessee, 1962*
Mark Schottenfeld. *B.A., Hobart, 1963; M.D., Chicago, 1967*
E. Baldwin Self, Jr. *B.A., Yale, 1932; M.D., Columbia, 1936*
Martin L. Sorger. *B.A., Hamilton, 1956; M.D., Columbia, 1960*
Ronald Tietjen. *B.S., Ursinus (Pennsylvania), 1968; M.D., New York University, 1972*
Luther F. Warren. *B.A., Harvard, 1961; M.D., Columbia, 1968*
Joel D. Weinstein. *B.A., Princeton, 1958; M.D., Columbia, 1962*

Associate Research Scientists

Robert James Foster. *B.A., Cooper Union, 1973; M.E., Columbia, 1974; Sc.D., 1982*
Robert J. Pawluk. *B.S., Columbia, 1974; M.B.A., 1977*
Wenbo Zhu. *B.S., Shanghai Science & Technology, 1982; M.S., Rensselaer Polytechnic Institute, 1984*

SPECIAL LECTURERS

C. Andrew L. Bassett, M.D.
Austin D. Johnston, M.D.
Charles S. Neer II, M.D.
Frank E. Stinchfield, M.D.
D. Keith McElroy, M.D.

LECTURER

Allan M. Levy, M.D.

INSTRUCTORS IN CLINICAL ORTHOPEDIC SURGERY

Phillip A. Bauman, M.D.
Steven Berkowitz, M.D.
Michael J. Bronson, M.D.
Robert M. Esposito, M.D.
Stuart J. Fischer, M.D.
Richard E. Fleming, Jr., M.D.
Craig Richard Foster, M.D.
Charles B. Goodwin, M.D.
Armen C. Haight, M.D.
James S. Kort, M.D.
Lawrence A. Lefkowitz, M.D.
John J. Leppard III, M.D.
Marc I. Malberg, M.D.
Seth R. Miller, M.D.
Thomas A. Rago, M.D.
Wendell O. Scott, M.D.
Hervey S. Sicherman, M.D.
William T. Stillwell, M.D.
Francis F. Tarsney, M.D.
Marvin Winell, M.D.

At Mary Imogene Bassett Hospital

Assistant Clinical Professor

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INSTRUCTOR IN CLINICAL ORTHOPEDIC SURGERY

Charles A. Mick, M.D.

At Harlem Hospital

Associate Professor of Clinical Orthopedic Surgery

Marvin L. Shelton. *B.S., Howard, 1951; M.D., 1956*

Assistant Professors of Clinical Orthopedic Surgery

Reginald E. Manning. *B.A., Columbia, 1974; M.D., 1978*
Shearwood J. McClelland. *B.A., Princeton, 1969; M.D., Columbia, 1974*

INSTRUCTORS IN CLINICAL ORTHOPEDIC SURGERY

Mark D. Chase, M.D.
Jacquelin Emmanuel, M.D.
Caleb F. Medley, M.D.

At Helen Hayes Hospital

Professor of Clinical Orthopedic Surgery

George Van B. Cochran. *B.A., Dartmouth, 1953; M.D., Columbia, 1956; Med.Sc.D., 1957*

Associate Clinical Professor

Raphael K. Levine. *B.A., Brandeis, 1961; M.D., Jefferson, 1965*

Assistant Professor

Mark Weidenbaum. *B.S., Connecticut, 1977; M.D., Columbia, 1981*

Associate Research Scientists

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Murali P. Kadaba. *M.S., Cincinnati, 1972; Ph.D., Kentucky, 1978*

INSTRUCTORS IN CLINICAL ORTHOPEDIC SURGERY

John W. Carmody, M.D.
Ralph N. Purcell, M.D.

At St. Luke's - Roosevelt Hospital Center

Professor of Clinical Orthopedic Surgery

Joseph W. Fielding. *M.D., Toronto, 1946*

Clinical Professor

Robert E. Zickel. *B.A., Cornell, 1952; M.D., 1958*

Assistant Clinical Professors

Vincent J. Fietti, Jr. *B.A., Boston, 1968; M.D., 1972*
William G. Hamilton. *B.S., Princeton, 1954; M.D., Columbia, 1964*
Frederic E. Helbig. *B.A., Brown, 1964; M.D., Boston, 1969*
Paul Hobeika. *B.S., Christian Brothers (Lebanon), 1968; M.D., French Faculty, 1975*
Tarek Hisham Mardam-Bey. *M.D., American University of Beirut, 1972*
Ronald M. Match. *B.A., Hofstra, 1953; M.D., Jefferson, 1957*
James C. Parkes, II. *B.A., Dartmouth, 1957; M.D., Harvard, 1961*
Andrew H. Patterson. *B.A., North Carolina, 1954; M.D., Columbia, 1958*
George L. Unis. *B.A., New York University, 1960; M.D., College of Medicine and Dentistry of New Jersey, 1975*

INSTRUCTORS IN CLINICAL ORTHOPEDIC SURGERY

Richard J. Cea, M.D.
Sanford A. Ratzan, M.D.
Francesca Thompson, M.D.

Otolaryngology

Professor and Chairman

Maxwell Abramson. *B.A., Wesleyan, 1957; M.D., Union (Albany), 1961*

At Presbyterian Hospital

Professor of Auditory Biophysics

Shyyam K. Khanna. *B.Sc., Lucknow (India), 1951; D.R.E., St. Xaviers (Bombay), 1951*

Professors of Clinical Otolaryngology

Andrew Blitzer (also Dental & Oral Surgery). *B.A., Adelphi, 1966; D.D.S., Columbia, 1970; M.D., Mt. Sinai, 1973*
Robert M. Hui. *B.A., Southern California, 1943; M.D., 1946*

Professor of Clinical Audiology and Speech Pathology

Thomas H. Fay. *B.A., Florida, 1949; M.A., Columbia, 1950; Ph.D., Illinois, 1958*

Clinical Professors

Lawrence Savetsky. *B.A., New York University, 1951; M.D., State University of New York (Downstate), 1955*
Malcolm H. Schvey. *B.A., Lehigh, 1947; M.A., Columbia, 1950; M.D., Amsterdam, 1956*
Howard W. Smith. D.*M.D., Tufts, 1945; Ph.D., Yale, 1948; M.D., 1953*

Associate Professor of Clinical Otolaryngology

Cheng Chun Huang. *B.S., Taiwan, 1963; M.S., Vanderbilt, 1966; Ph.D., Iowa, 1970*

Associate Professors of Clinical Dental & Oral Surgery

John D. Piro (Prosthetics). *B.A., Fordham, 1943; D.D.S., Columbia, 1946*
Steven M. Roser (also in Surgery). *B.A., Middlebury, 1964; D.M.D., Harvard, 1968; M.D. 1972*

Assistant Professors

Monte S. Keen. *B.A., State University of New York (Binghamton), 1976; M.D., California (San Francisco), 1981*
Hector P. Rodriguez. *M.D., Autonomous (Guadalajara), 1980*
Jack Joseph Wazen. *B.S., American University of Beirut, 1974; M.D., 1978*

Assistant Professor of Clinical Otolaryngology

Lee David Eisenberg. *B.S., St. John's (New York), 1967; M.D., State University of New York (Downstate), 1971*

Assistant Clinical Professors

Anthony Paul Caruso. *B.S., Dickinson, 1971; M.D., Jefferson, 1975*
Vincent G. Caruso. *B.S., Dickinson, 1963; M.D., Jefferson, 1967*
Hyun T. Cho. *M.D., Korea, 1964*
Daniel J. Pender. *B.S., Worcester Polytechnic Institute, 1963; M.S., Yale, 1964; M.D., Pennsylvania, 1969*
Raymond B. Strauss. *B.A., Washington (St. Louis), 1950; Ph.D., Florida, 1956; M.D., Case Western Reserve, 1968*

Associate Research Scientist

James P. Kelly (also Anatomy & Cell Biology). *B.A., Harpur, 1966; M.D., Washington (St. Louis), 1971*

Adjunct Associate Research Scientist

Jonathan B. Allen. *Ph.D., Pennsylvania, 1970*

INSTRUCTORS IN CLINICAL OTOLARYNGOLOGY

Carol L. Mackersie, M.A.
Robert L. Russo, M.D.

At Mary Imogene Bassett Hospital

INSTRUCTOR IN CLINICAL OTOLARYNGOLOGY

Paul D. Nosal, M.D.

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Associate Clinical Professor

Errol A. Thompson. *M.B., University College (Dublin), 1936*

Assistant Clinical Professor

Ransford C. Newman. *M.B.,B.S., London, 1960*

INSTRUCTOR IN CLINICAL OTOLARYNGOLOGY

Ellsworth Frye, M.D.

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Professor

William H. Friedman. *B.A., Washington, 1960; M.D., 1964*

Associate Professor of Clinical Otolaryngology

George P. Katsantonis. *M.D., National University of Athens (Greece), 1971*

Associate Clinical Professor

John S. Lewis. *M.D., Alberta (Canada), 1953*

Assistant Clinical Professors

Jacques A. Herzog. *B.A., Missouri, 1980; M.D., 1980*
Alan Jacobson. *M.D., Einstein, 1978*
Tay Bong Lee. *M.D., Seoul National University, 1962*
Steven J. Pearlman. *B.A., Brandeis, 1978; M.D., Mt. Sinai, 1982*
Barry N. Rosenblum. *B.S., Missouri, 1976; M.D., 1980*
Walter H. Stingle. *B.A., Columbia, 1965; M.D., 1969*

INSTRUCTORS IN CLINICAL OTOLARYNGOLOGY

Marta Aramburu, M.D.
Neville W. Carmical, M.D.
James F. Grillo, M.D.
Edward M. Lane, M.D.
L. Nicole Moulin, M.D.
Dev Das Panigrahi, M.B.B.S.
Geoffrey J. Pollack, M.D.
Mauriciu Rodescu, M.D

Pathology

Francis E. Delafield Professor and Chairman

Michael M. Shelanski (in the Center for Neurobiology & Behavior). *M.D., Chicago, 1966; Ph.D., 1967*

At Presbyterian Hospital

Professors

Richard Axel (Eugene Higgins Professor) (also Biochemistry & Molecular Biophysics). *B.A., Columbia, 1967; M.D., Johns Hopkins, 1970*
Gabriel C. Godman (also Microbiology). *B.A., New York University, 1941; M.D., 1944*
Lloyd A. Greene (in the Center for Neurobiology & Behavior). *B.S., Chicago, 1965; Ph.D., California, 1970*
Daniel M. Knowles. *B.A., Bridgeport, 1969; M.D., Chicago, 1973*
Frederick R. Maxfield (also Physiology & Cellular Biophysics) (in the Center for Neurobiology & Behavior). *B.S., Union, 1971; Ph.D., Cornell, 1977*
Ralph M. Richart. *B.A., Johns Hopkins, 1954; M.D., Rochester, 1958*
Virginia Tennyson (also Anatomy & Cell Biology). *B.S., Pennsylvania State, 1946; M.S., Baylor, 1956; M.D., Columbia, 1960*

Professor of Surgical Pathology

Luciano Ozello. *M.D., Turin, 1951*

Adjunct Professors

S. Raymond Gambino. *B.S., Antioch, 1948; M.D., Rochester, 1952*
Robert V. Hutter. *B.A., State University of New York (Syracuse), 1950; M.D., 1954; M.A., Yale, 1958*
Harry L. Ioachim. *M.D., Bucharest (Rumania), 1949*
Sidney Pestka. *B.A., Princeton, 1957; M.D., Pennsylvania, 1961*

Professors of Clinical Pathology

Carmia Borek (in Radiation Oncology). *M.S., George Washington, 1961; Ph.D., Wietzmann Institute (Israel), 1967*
Jay Lefkowitch. *B.A., Clark, 1972; M.D., Columbia, 1976*
Armand F. Miranda. *B.S., Columbia, 1969; M.D., 1973*
James M. Powers. *B.S., Manhattan, 1965; M.D., South Carolina, 1969*
Robert F. Reiss. *B.A., State University of New York (Syracuse), 1959; M.D., Bologna (Italy), 1965*
Nicole Suciu-Foca (in Surgery). *B.S., Bucharest (Rumania), 1959; M.D., 1960; Ph.D., 1965*

Professor of Clinical Comparative Pathology

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Professor of Clinical Surgical Pathology

Karl Perzin. *B.A., Columbia, 1954; M.D., 1958*

Clinical Professors

Giuseppe A. Andres. *M.D., Pisa (Italy), 1949; Ph.D., 1965*
Pablo Rubinstein. *M.D., Chile, 1962*
Sheldon C. Sommers. *M.D., Harvard, 1941*

Clinical Professor of Oral Pathology

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Associate Professors

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Riccardo Dalla-Favera. *M.D., Milan (Italy), 1976*
James E. Goldman (in Psychiatry). *B.A., Amherst, 1968; M.D., New York University, 1976; Ph.D., 1976*
Mary E. Hatten (in the Center for Neurobiology & Behavior). *B.A., Hollins, 1971; Ph.D., Princeton, 1975*
Ronald Liem (also Anatomy & Cell Biology) (in the Center for Neurobiology & Behavior). *B.A., Amherst, 1968; M.Sc., Cornell, 1969; Ph.D., 1973*
Carol A. Mason (also Anatomy & Cell Biology) (in the Center for Neurobiology & Behavior). *B.S., Chatham, 1967; M.A., California (Berkeley), 1969; Ph.D., 1973*
John F. Nicholson (also Pediatrics). *B.A., Vanderbilt, 1955; M.D., 1958*

Associate Professor of Dental & Oral Surgery (Stomatology)

David Zegarelli. *B.A., Columbia, 1965; D.D.S., 1969*

Associate Professors of Neuropathology

Lester M. Geller. *B.A., Cornell, 1947; M.A., Michigan State, 1948; Ph.D., New York University, 1953*
Mavis Kaufman (in Psychiatry). *M.D., New York Medical College, 1944*

Adjunct Associate Professors

Ernest Baden. *M.A. Sorbonne, 1946; D.D.S., New York University, 1950; M.D., Geneva, 1962*
Lewis Allen Johnson. *B.A., Minnesota, 1951; M.D., 1955*
Michael J. Lotz. *B.A., Columbia, 1968; M.D., 1972*
Ah-Kau Ng (in Surgery). *B.S., National Chung Hsing University (Taiwan), 1969; M.D., State University of New York (Plattsburgh), 1972; Ph.D., Temple, 1975*
M. Richard Pachter. *M.D., Zurich, 1956*
John A. Terzakis. *B.A., Columbia, 1957; M.D., New York University, 1961*
Kaity Yannopoulos. *M.D., Greece, 1954*
Frederick T. Zugibe. *B.S., St. Francis, 1951; M.S., Chicago, 1959; Ph.D., 1960*

Associate Professor of Clinical Pathology

Thomas A. Blumenfeld. *A.A., North Carolina, 1960; M.D., Tennessee, 1964*
Reba M. Goodman. *B.A., Indiana, 1949; M.A., Columbia, 1953; Ph.D., 1956*
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Barbara A. Winkler. *M.D., Columbia, 1978*

Associate Professors of Clinical Neuropathology

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Associate Clinical Professors

Irwin A. Almenoff. *B.S., College of the City of New York, 1948; M.D., Cornell, 1952*
Daniel W. Benninghoff. *B.A., Yale, 1949; M.D., Columbia, 1953*
Donald E. Brown. *M.D., Harvard, 1943*
Daniel J. Fink. *B.S., Cornell, 1968; M.S., Massachusetts Institute of Technology, 1970; M.D., Columbia, 1975; M.Phil., 1980*
Ricardo Mesa-Tejada. *B.S., Manhattan, 1964; M.D., Madrid, 1970*
Artemis D. Nash. *B.A., Smith, 1949; M.D., Columbia, 1953*
David N. Silvers (also Dermatology). *B.A., Haverford, 1964; M.D., Duke, 1968*
Stanley Simbonis. *B.S., Yale, 1953; M.D., 1957*

Associate Clinical Professor of Neuropathology

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Assistant Professors

Carole Louise Berger (also Dermatology). *B.S., City College of New York, 1966; M.A., Columbia, 1971; M.S., 1975; Ed.D., 1976; Ph.D., 1984*
Amy Chadburn. *B.S., Oregon, 1979; M.D., Stanford, 1983*
Margaret Collins. *B.S., Fordham, 1972; M.D., Georgetown, 1977*
Vivette Denise D'Agati. *B.A., Yale, 1975; M.D., New York University, 1979*
Andrew J. Dwork (in Psychiatry). *B.A., Columbia, 1973; M.D., College of Medicine and Dentistry of New Jersey, 1977*
Margaret M. Grimes. *B.A., Rosemont College (Pennsylvania), 1971; M.D., New York Medical College, 1975*
Peter J. Knudsen. *B.A., California (Berkeley), 1974; Ph.D., 1980*
Timothy E. McGraw. *B.A., Chicago, 1978; Ph.D., New York University, 1985*
Gerard J. Nuovo. *B.A., Vermont, 1974; M.D., Burlington, 1983*
Philip C. Ursell. *B.A., Haverford, 1972; M.D., Columbia, 1976*
Thomas C. Wright, Jr. *B.A., North Carolina, 1973; M.D., Harvard, 1977*

Adjunct Assistant Professors

Solange G. Abunassar. *M.D., American University of Beirut, 1968*
Alessandra Bini. *B.S., Milano (Italy), 1980; Ph.D., Columbia, 1987*
Larry E. Douglass. *B.A., Washington (St. Louis), 1959; M.D., Vanderbilt, 1960*
Howard B. Goldstein. *B.A., Colgate, 1955; M.D., State University of New York (Albany), 1959*
Arthur I. Hurvitz. *D.V.M., Michigan State, 1964; Ph.D., California (Davis), 1967*
Paul A. Krieger. *B.S., College of the City of New York, 1967; M.D., New York Medical College, 1971*
Robert D. Newman. *B.S., California (Los Angeles), 1958; M.D., 1962*
Joseph E. O'Brien. *B.A., Columbia, 1957; M.D., State University of New York (Downstate), 1961*
Kathleen Mary O'Toole. *B.S., Fordham, 1974; M.D., Albert Einstein, 1978*

Assistant Professors of Clinical Pathology

John M. Aletta. *M.A., Columbia, 1980; Ph.D., Columbia, 1984*
Jerome Owen Cantor. *B.A., Columbia, 1971; M.D., Pennsylvania, 1975*
Joseph M. Ceretta. *B.S., Fordham, 1969; M.S., 1971; Ph.D., 1976*

Frederic Clayton. *B.A., Rice, 1973; M.D., Washington, 1977*
Thomas Landes Clemens. *B.A., Goshen (Indiana), 1973; M.S., Pennsylvania State, 1975; Ph.D., London, 1980*
Paul E. Harris. *B.A., California (Berkeley), 1978; Ph.D., Cornell, 1985*
Stephen Keller. *B.S., City College of New York, 1953; M.S., St. John's, 1955; Ph.D., Rutgers, 1959*
Alexander Krichevsky. *P.M., Soviet Army School of Medical Assistants (U.S.S.R.), 1970; D.V.M., Odessa Agricultural Institute (U.S.S.R.), 1975*
Steven H. Lewis (also Obstetrics & Gynecology). *B.A., Colorado, 1977; M.D., 1981*
John F. O'Connor. *B.S., St. John Fisher, 1960; Ph.D., Rochester, 1969*
May Parisien. *M.D., State University (Port-au-Prince), 1966*
Howard Ratech. *B.S., Rensselaer Polytechnic Institute, 1972; M.D., State University of New York (Albany), 1976*

Assistant Clinical Professors

Stefan D. Epstein. *B.A., Columbia. 1956; M.D., State University of New York (Buffalo), 1960*
Horoshi Nakazawa. *M.D., Keio (Tokyo), 1958*
Mohamed Osman. *D.V.M., Cairo, 1967; Ph.D., Columbia, 1983*
Neelavathy Pushparaj. *B.S., Madras (India), 1957; M.B.,B.S., 1961*
Elaine Reed. *B.S., State University of New York (Stony Brook), 1979; M.S., Columbia, 1981; Ph.D. 1983*
Henry G. Shriever. *B.A., Vermont, 1956; M.D., New York Medical College, 1960*
Ralph W. Snyder. *B.S., McGill, 1951; M.D., 1953*

Assistant Clinical Professor of Neuropathology

Michael Kogan. *B.A., Miami (Florida), 1964; B.S., 1967; Ph.D., Virginia Polytechnic Institute, 1972*

Associate Research Scientist

John J. Krolewski. *S.M.,S.B., Massachusetts Institute of Technology, 1977; M.D.,Ph.D., New York University, 1984*

SPECIAL LECTURERS

David Cowen, M.D.
Paul Ellner, Ph.D.
C. Zent Garber, M.D.
Austin D. Johnston, M.D.
Raffaele Lattes, M.D.
Conrad Pirani, M.D.
Leon Roizin, M.D.
Henry Vogel, M.D.

LECTURERS

Michael Baden, M.D.
Paul A. Brown, M.D.
Hyman Donnenfeld, M.D.
Janis F. Klavins, M.D.
Lee L. Rubin, Ph.D.

INSTRUCTOR

Yaffa Mizrachi, Ph.D.

INSTRUCTORS IN CLINICAL PATHOLOGY

Raimundo Gonzalez, M.D.
Margarita E. Jimenez, M.D.
Monica C. Yang, M.D.
Elena Zegarelli-Schmidt, Ph.D.

At Mary Imogene Bassett Hospital

Assistant Clinical Professor

Harlan D. Alpern. *B.S., Michigan, 1967; M.D., Chicago, 1971*

INSTRUCTORS IN CLINICAL PATHOLOGY

Charles A. Ellsworth, M.D.
William B. Guiney, M.D.

At Harlem Hospital

Professor

Jack W.C. Hagstrom. *B.A., Amherst, 1955; M.D., Cornell, 1959*

Clinical Professors

Prem Chauhan. *F.Sc., Med., Punjab (India), 1942; M.D., Cornell, 1959*
Carlos Navarro. *B.S., National University (Mexico), 1947; M.D., 1955*

Associate Clinical Professor

Angus C. Sampath (in Microbiology). *D.Sc., Strasbourg, 1966*

Assistant Professor of Clinical Pathology

Edward Moskovic. *M.D., Central (Madrid), 1956*

Assistant Clinical Professors

Claude J. Neptune, *M.D., Haiti, 1963*
Helen M. S. Richards. *M.B.,B.S., Colombo (Sri Lanka), 1969*
Louys Thomas. *M.D., Port-au-Prince (Haiti), 1965*

INSTRUCTOR IN CLINICAL PATHOLOGY

Ranjit K. Sachdev, M.B.,B.S.

At Helen Hayes Hospital

Assistant Professor of Clinical Pathology

William David Dempster. *Ph.D., Glasgow, 1979*

At Morristown Memorial Hospital

Professor of Clinical Pathology

Marianne Wolff. *B.A., Hunter, 1948; M.D., Columbia, 1952*

Associate Clinical Professor

Graig Dise. *B.S., Muhlenberg, 1971; M.D., Pennsylvania, 1975; Ph.D., 1978*

Assistant Clinical Professors

Nancy Joy Hunter. *B.S., Michigan, 1974; M.D., 1978*
Robert S. Katz. *B.A., Haverford, 1972; M.D., Albert Einstein, 1975*
Jory G. Magidson. *M.D., Columbia, 1978*

At Overlook Hospital

Clinical Professor

Bernard M. Wagner. *M.D., Hahnemann, 1946*

Assistant Clinical Professors

Steven L. Goldberg. *B.A., Kenyon, 1963; M.D., State University of New York (Downstate), 1968*
Anthony Marchand. *B.A., Connecticut, 1966; M.D., Duke, 1970*
Joel A. Roth. *B.A., Brooklyn, 1964; M.D., State University of New York (Downstate), 1968*
Donald L. Warkentin. *B.A., Yale, 1961; Ph.D., State University of New York (Syracuse), 1972*

ASSOCIATE IN CLINICAL PATHOLOGY

Frederick van Lente, M.D.

At St. Luke's - Roosevelt Hospital Center

Professor

Horton A. Johnson. *B.A., Colorado College (Colorado Springs), 1949; M.D., Columbia, 1953*

Professor of Clinical Surgical Pathology

Stephen F. Ryan. *B.S. Regis College (Denver), 1957; M.D., Colorado, 1961*

Associate Professor

David J. Volsky. *B.S., Ben-Gurion University (Israel), 1972; M.S., Hebrew University (Israel), 1975; Ph.D., 1979*

Associate Clinical Professors

John T. Kiyasu. *B.A., California (Berkeley), 1951; Ph.D., 1955*
Louise Lang Phillips. *B.S., William and Mary, 1934; M.A., Columbia, 1940; Ph.D., 1950*

Assistant Professors of Clinical Pathology

Kenneth F. Button. *B.A., Indiana, 1966; M.D., 1970*
Deng Fong Liau. *M.Sc., McGill, 1968; Ph.D., 1971*
Faruk Sinangil. *B.S., Middle East Technical University (Turkey), 1974; M.S., Hacettepe University (Turkey), 1979; Ph.D., 1980*

Assistant Clinical Professors

Harold P. Gaetz. *B.S., McGill, 1953; M.D., 1958*
Martin Krumerman. *B.S., New York University, 1961; M.D., 1965*
Bozidar Lazarevic. *M.D., Belgrade, 1956*
John V. Scholes. *B.S., Trinity (Connecticut), 1970; M.D., Columbia, 1974*
Corazon Sian. *A.A., Santo Tomas (Philippines), 1958; M.D., 1963*

Associate Research Scientist

Efim I. Golub. *B.S., State University of Minsk (U.S.S.R.), 1958; Ph.D., Institute of General Genetics (U.S.S.R.), 1963; Sc.D., 1976*

INSTRUCTORS

Petra Banogon, M.D.
Mary J. Potash, Ph.D.

INSTRUCTORS IN CLINICAL PATHOLOGY

Elizabeth Ames, M.D.
Vijai Katatikorn, M.D.
Koji Sakai, M.D.
Rose-Sunitha Thayaparan, M.D

Pediatrics

Rueben S. Carpentier Professor and Chairman

Michael Katz (also Public Health). *B.A., Pennsylvania, 1949; M.D., State University of New York (Downstate), 1956; M.S., Columbia, 1963*

At Presbyterian Hospital

Professors

Ralph B. Dell. *B.A., Pomona, 1957; M.D., Pennsylvania, 1961*
Darryl C. De Vivo (also Sidney Carter Professor of Neurology). *B.A., Amherst, 1959; M.D., Virginia, 1964*
Anne A. Gershon. *B.A., Smith, 1960; M.D. Cornell, 1964*
Welton M. Gersony. *B.A., Syracuse, 1954; M.D., State University of New York (Upstate), 1958*
L. Stanley James (also Obstetrics & Gynecology). *M.D., Otago (New Zealand), 1948*
Robert B. Mellins. *B.A., Columbia, 1948; M.D., Johns Hopkins, 1952*
Sergio Piomelli. *B.A., Liceo Sannazzaro (Naples), 1948; M.D., Naples, 1954*
Michael R. Rosen (also Pharmacology). *B.A., Wesleyan, 1960; M.D., State University of New York (Downstate), 1964*
David Shaffer (Irving Philips Professor of Child Psychiatry). *M.B.,B.S., London, 1961; Academic Diploma Psychological Medicine, 1969*
Myron Winick (Robert R. Williams Professor) (in the Institute of Human Nutrition). *B.A., Columbia, 1951; M.S., Illinois, 1952; M.D., State University of New York (Downstate), 1956*

Professor of Pediatric Surgery

R. Peter Altman (Rudolph H. Schullinger Professor of Pediatric Surgery) (also Surgery). *B.A. Colgate, 1955; M.S. Rochester, 1958; M.D., New York Medical College, 1961*

Professors of Clinical Pediatrics

Abe Chutorian (also Neurology). *B.A., Manitoba, 1949; B.S., 1952; M.D., 1957*
Gerd J. A. Cropp. *M.D., Western Ontario, 1958; Ph.D., 1965*
Nicholas Cunningham (also Public Health). *B.A., Harvard, 1950; M.D., Johns Hopkins, 1955*
John C. Dower. *B.A., Johns Hopkins, 1950; M.D., 1954*
John M. Driscoll. *B.A., Hamilton, 1958; M.D., Bowman Gray, 1962*
Harold E. Fox (also Obstetrics & Gynecology). *M.Sc., Rochester and Oxford, 1972; M.D., Rochester, 1972*
Arnold P. Gold (also Neurology). *B.A., Texas, 1947; M.S., Florida, 1949; M.D., Lausanne, 1954*
Sylvia P. Griffiths. *B.A., Hunter, 1944; M.D., Yale, 1948*
Jerry C. Jacobs. *B.A., Columbia, 1952; M.D., 1956*
Anneliese L. Sitarz. *B.A., Bryn Mawr, 1950; M.D., Columbia, 1954*

Professor of Clinical Genetics & Development

Dorothy Warburton (in Genetics & Development). *Ph.D., McGill, 1961*

Professor of Clinical Psychiatry

H. Donald Dunton. *M.D. Rochester, 1945*

Clinical Professors

Fred Agre. *B.A., Lafayette, 1957; M.D., Duke, 1961*
Russell S. Asnes. *B.A., Boston, 1959; M.D., Tufts, 1963*
Frederic M. Bomback. *B.A., Brandeis, 1965; M.D., New York University, 1969*
William J. Davis. *B.A., Wilkes, 1961; M.D., Columbia, 1965*
Armond Y. Mascia. *B.A., Columbia, 1942; M.D., New York University, 1945*
Joseph A. Silverman. *B.A., Princeton, 1952; M.D., Columbia, 1956*

Associate Professors

Richard Deckelbaum. *B.Sc., McGill, 1963; M.D., 1967*
William C. Heird. *B.S., Maryville, 1958; M.S., Vanderbilt, 1963; Ph.D. Rutgers, 1971*
Ehud Krongrad. *M.D., Hebrew (Jerusalem), 1965*
Gilbert W. Mellin. *B.S., Bethany, 1945; M.D. Johns Hopkins, 1949*
Akira Morishima. *M.D., Keio (Japan), 1954; Ph.D., 1961*
John F. Nicholson (also Pathology). *B.A., Vanderbilt University, 1955; M.D., 1958*
Peter T. Rothstein (also Anesthesiology). *B.A., Brandeis, 1966; M.D., Albert Einstein, 1970*
Raymond I. Stark. *B.S., Columbia, 1963; M.D., 1970*

Associate Professor of Pharmacology

Joseph Graziano. *B.S., Long Island, 1967; Ph.D., Rutgers, 1971*

Associate Professors of Clinical Pediatrics

Jennifer J. Bell. *B.A., Swarthmore, 1953; M.D., New York University, 1961*
Fredrick Z. Bierman. *B.S., Union, 1969; M.D., State University of New York (Downstate) 1973*
Ronald Gould Emerson (also Neurology). *M.D., New York University, 1975*
Charles H. Feldman. *B.A., Columbia, 1966; M.D., State University of New York (Downstate), 1970*
Allan Hordof. *B.A., Hobart, 1962; M.D., New York University, 1966*
Sudha Kashyap. *M.B.,B.S., St. John's (Bangalore, India), 1972*
Adrien Moessinger. *M.D., Lausanne, 1971*
Martin Nash. *B.A., Duke, 1960; M.D., 1964*
Jane Pitt. *B.A., Radcliffe, 1960; M.D., 1964*
Alice S. Prince. *B.A., Wellesley, 1971; M.D., Columbia, 1975*
Joan A. Regan. *B.S., Mt. St. Vincent, 1969; M.D., Missouri, 1974*
Tove S. Rosen. *B.A., Rochester, 1961; M.D., State University of New York (Downstate), 1965*
Karl F. Schulze. *B.A., Carleton, 1961; M.D., Rochester, 1965*

Associate Clinical Professors

Robert Appleby. *B.S., Michigan, 1944; M.D., Johns Hopkins, 1949*
William A. Bauman. *B.S., Harvard, 1943; M.D., Columbia, 1946*
Roger Challop. *B.S., Brooklyn, 1963; M.D., New York Medical College, 1967*
Bernard R. Feldman. *B.S., William and Mary, 1955; M.D., Chicago, 1959*
Burton Grebin. *B.A., Adelphi, 1962; M.D., New York Medical College, 1966*
Constance J. Hayes. *B.S., St. Rose, 1959; M.D. Loyola, 1965*
Mathilde Irigoyan. *B.A., Buenos Aires, 1966; M.D., 1971*

John J. Kangos. *B.S., Rutgers, 1945; M.D., Long Island, 1948*
Kenneth H. Katz. *B.A., Lafayette, 1968; M.D., New York Medical College, 1973*
George Lazarus. *B.A., Yale, 1967; M.D., Columbia, 1971*
Joseph S. Levy. *M.D., Hadassah (Israel), 1971*
Harriet E. McGurk. *B.A., Radcliffe, 1967; M.D., Albert Einstein, 1973*
Michael Novogroder. *B.S., Brooklyn, 1965; M.D., State University of New York, 1969*
Jack Shiller. *B.A., North Carolina, 1947; M.D., Columbia, 1952*

Associate Clinical Professor of Anesthesiology

Jen-Tien Wung. *M.D., Tapei Medical College, 1956*

Associate Clinical Professor of Psychiatry

Arthur Green. *B.A., Rochester, 1951; M.D., Amsterdam, 1956*

Research Scientists

Salha S. Daniel (also Anesthesiology). *B.S., London, 1954; Ph.D., 1957*
Rajasekhar Ramakrishnan. *B. Tech., India Institute of Technology, 1968; M.S., Columbia, 1971; D.Eng. Sc., 1974*

Assistant Professors

Linda J. Addonizio. *B.S., Stanford, 1974; M.D., Columbia, 1978*
Leslie Davidson (also Public Health) (Epidemiology) (in the Sergievsky Center). *B.A., Radcliffe, 1970; M.D., Columbia, 1978*
James Garvin. *B.A., Harvard, 1968; M.D., Jefferson, 1976*
Ludovico Guarini. *M.D., Naples, 1974*
Daphne Hsu. *B.A., Radcliffe, 1978; M.D., Yale, 1982*
Anne Hurlet-Jensen. *M.D., Liege (Belgium), 1966*
Philip S. Larussa. *B.S., State University of New York (Stony Brook), 1970; M.D., Bolgna (Italy), 1978*
Stephen E.C. Ng (also Public Health) (in the Sergievsky Center). *B.S., La Salle (Hong Kong), M.B.,B.S., Hong Kong, 1972; M.P.H., Columbia, 1981; Ph.D., 1986*
Stephen W. Nicholas. *B.S., Wyoming, 1975; M.D., Colorado, 1981*
Agathe Pachnis. *M.D., Athens, 1979*
Michael R. Pranzatelli (also Neurology). *B.S., B.A., Duquesne, 1972; M.D., Pennsylvania State, 1976*
Lynne M. Quittell. *B.A., Hampshire, 1975; M.D., Tel Aviv, 1981*
Andrew David Racine. *B.A., Harvard, 1974; M.D., New York University, 1983*
Thomas Joseph Starc. *B.A., California (Berkeley), 1972; M.D., Mt. Sinai,1976*
Jan Wollack (also Neurology). *B.S., Yale, 1975; M.D., Columbia, 1981; Ph.D., 1981*

Assistant Professors of Clinical Pediatrics

Kwame Anyane-Yeboa. *M.D., Ghana, 1972*
Gaya S. Aranoff. *B.A., Barnard, 1972; M.D., Albert Einstein, 1975*
Robyn J. Barst. *B.A., Rochester, 1972; M.D., North Carolina, 1976*
Christine Marie Donnelly. *B.A., Manhattanville, 1973; M.D., Columbia, 1978*
Candace Jean Erickson. *B.A., George Washington, 1969; M.D., Maryland, 1973*
Sarmistha Bhaduri Hauger. *B.S., Texas, 1972; M.D., Loyola Stritch, 1976*
Ramamohana R. Kairam (also Neurology). *M.B.,B.S., Andhra (India), 1970*
Mary McCord. *B.A., Williams, 1978; M.D., Columbia, 1983; M.P.H., 1986*
Emi Okamoto. *B.A., Mt. Holyoke, 1969; M.D., Columbia, 1973*
Celia Ores. *M.D., Berne (Switzerland), 1956*
Nan Salamon. *B.S., Cornell, 1975; M.D., Pittsburgh, 1981*
Ulana Sanocka. *B.S., Brooklyn College, 1968; M.D., New York University, 1974*
Robert L. Seigle. *B.A., Northwestern, 1970; M.D., Columbia, 1974*

Assistant Professor of Clinical Psychology

Donald E. Hutchings (also Psychiatry). *B.A., Wake Forest, 1959; M.A., Chicago, 1963*

Assistant Clinical Professors

Stephen M. Arpadi. *M.D., George Washington, 1982*
Michael Bartalos. *M.D., Heidelberg, 1960*
Alexander Blum, Jr., *B.S., Yale, 1944; M.D., Harvard, 1947*
Joseph M. Bordiuk. *B.S., Colgate, 1954; M.D., Cornell, 1958*
Jocelyn Brown. *M.D., Xavier, 1980*
Marian B. Demeny. *B.A., Barnard, 1969; M.D., New York University, 1973*
Yvonne T. Driscoll. *B.A., Trinity, 1958; M.D., Women's Medical College of Pennsylvania, 1962*
T. Donald Eisenstein. *B.A., Johns Hopkins, 1952; M.D., State University of New York (Albany), 1956*
Jane Eliot Fried (in Psychiatry). *B.A., Vassar, 1964; M.D., Columbia, 1970*
Joseph W. Gaffney, *B.S., Boston, 1977; M.D., New York Medical College, 1981*
Marguerite J. Gates. *B.A., Barnard, 1950; M.D., Columbia, 1954*
Gustave Gavis. *B.A., Indiana, 1948; M.D., State University of New York (Downstate), 1952*
Stephen Glaser. *B.A., Columbia, 1960; M.D., New York University, 1964*
Bertram H. Grossman. *B.A., North Carolina, 1948; M.D., Georgetown, 1959*
Robert A. Hands, Jr. *M.D., Cornell, 1968*
Leonard Kasen. *B.S., Rutgers, 1953; M.S., 1954; M.D., Albert Einstein, 1960*
Stuart Kaufman. *B.A., State University of New York (Buffalo), 1975; M.D., Medical College of Pennsylvania, 1980*
Philip Kazlow. *B.A., Yeshiva, 1976; M.D., Mt. Sinai, 1980*
Murray D. Kuhr. B.S, Cincinnati, 1961; *M.D., Chicago, 1965*
Betty C. M. L. Kuo. *B.A., Vassar, 1959; M.D., State University of New York (Albany), 1964*
Elaine C. Lee. *B.A., Skidmore, 1971; M.A., New York University, 1972; M.D., Dartmouth, 1979*
Judith Luskin. *B.A., Radcliffe, 1974; M.D., Tufts, 1978*
Mona Milstein. *B.A., State University of New York (Binghamton), 1965; M.D., State University of New York (Buffalo), 1969*
Harriette R. Mogul. *B.A., Bryn Mawr., 1961; M.D., Albert Einstein, 1965*
Damyanti Moorjani (also Rehabilitation Medicine). *B.S., Bombay, 1953; M.D., Grant (Bombay), 1957*
Kenneth Pituch. *B.A., Michigan State, 1972; M.D., 1981*
Herbert Poch. *B.A., Columbia, 1949; M.D., 1953*
Morton H. Rachelson. *B.A., State University of New York (Syracuse) 1946; M.D. Tulane, 1950*
Margaret M. Rice. *B.S., Marymount, 1943; M.D., New York Medical College, 1947*
Roderick C. Richards. *B.A., Cornell, 1945; M.D., 1948*
Louis Rodrigues. *B.S., College of the City of New York, 1955; M.D., State University of New York (Downstate), 1959*
John S. Rosmaita. *B.A., St. Peter's, 1953; M.D., State University of New York, 1957*
Malcolm S. Schwartz. *D.O., College of Osteopathic Medicine and Surgery, 1967*
Edith M. L. Kuo-Ying Shen. *M.D., Ludwig-Maximilian (Munich), 1960*
Kung Tso Sheng. *M.D., St. John's, (Shanghai), 1954*
David Siegler. *B.S., Columbia, 1975; M.D., Tufts, 1979*
William H. Smith. *B.A., Rochester, 1941; M.D., 1944*
Susan Spear. *B.A., Wellesley, 1968; M.D., Columbia, 1972*
Elizabeth K. Stern. *B.A., Michigan State, 1967; M.S., Michigan, 1969; Ph.D., 1974; M.D., Columbia, 1978*
Margaret Ann Stillman. *B.A., Yale, 1973; M.D., Columbia, 1977*
David Wisotsky. *B.S., College of the City of New York, 1970, M.D., Albert Einstein 1974*

Assistant Clinical Professors of Psychiatry

Barbara Ann Liskin. *M.D., Columbia, 1979*
Boris Rubinstein. *M.D., Mexico, 1970*

Associate Research Scientists

Elizabeth Anisfeld. *B.A., Toronto, 1960; M.A., McGill, 1961; Ph.D., 1964*
Maria Ann Crisafi. *Ph.D., Illinois, 1985*
David Evans. *B.A., Harvard, 1964; M.A., Northwestern, 1969; Ph.D., 1975*
Moshe J. Levison. *B.A., Pennsylvania, 1965; Ph.D., Indiana, 1973*
Koko Murakami. *B.A., Tokyo, 1968; M.A., 1970; Ph.D., 1973*
Carol Seaman. *B.S., Southern California, 1964; M.S., New York University, 1977*
Sharon P. Steinberg. *B.S., City College of New York, 1967*
Deborah R. Wagner. *B.A., State University of New York (Albany), 1980; M.A., Ferkauf Graduate School of Psychology, 1985; Ph.D., 1989*

LECTURERS

Albert Aharon, M.D.
Roy E. Brown, M.D.
Yaakov Shechter, Ph.D.

ASSOCIATES IN CLINICAL PEDIATRICS

Lilian Wah-Ying Chiu, M.D.
Maryann J. Colenda, M.D.
John L. Costa, M.D.
Ann L. Engelland, M.D.
Alan Kanter, M.D.
Peter F. Migel, M.D.
Neil Minikes, M.D.
Carlyn Ann Oppedisano, M.D.
I. Jill Ratner, M.D.
Robert M. Schwartz, M.D.
Yaakov Shechter, Ph.D.
Elynn M. Sugarman, M.D.
Nikki Lynn Timko, M.D.
Mary Versfelt, M.D.
Elizabeth A. Wedemeyer, M.D.

ASSOCIATE IN CLINICAL NURSING

Jane C. Andersen, M.S.

INSTRUCTORS IN CLINICAL PEDIATRICS

Dipti P. Amin, M.D.
Peter F. Belamarich, M.D.
Heidi E. Beutler, M.D.
Dennis Brown, M.D.
Maury Buchalter, M.D.
Kuang-Chung Hu Chien, M.B.
Lon Michael Dubey, M.D.
Bernard Etra, M.D.
Arlene Falk, M.D.
Howard M. Friedman, M.D.
Janice Fern Klein, M.D.
Robert M. Klein, M.D.
Rosemary Klenk, M.D.
Genevieve Lambert, M.D.
Michael L. Lapkin, M.D.
Dorothy Levine, M.D.
Sylvia Morgan, M.D.
Deborah Persaud, M.D.
Elizabeth Rollnik, M.D.
Rosalinda Rubinstein, M.D.
Gail Schewitz, M.D.
Susan Skalsky, M.D
Wendelin M. Slusser, M.D.
Tova G. Yellin, M.D.
Eric R. Yorke, M.D.

At Mary Imogene Bassett Hospital

Associate Clinical Professors

Allan S. Cunningham. *B.A., Yale, 1962; M.D., Case Western Reserve, 1966*
Gerald B. Kolski. *B.A., Dartmouth, 1964; Ph.D., Purdue, 1969; M.D., Cornell, 1976*

ASSOCIATES IN CLINICAL PEDIATRICS

John G. Freehafer, M.D.
Ann Fay Mick, M.D.
Margaret R. Young, M.D.

At Harlem Hospital

Professor

Margaret Heagerty. *B.A., Seton Hall, 1957; B.S., West Virginia, 1959; M.D., Pennsylvania, 1961*

Professor of Clinical Pediatrics

Gene-Ann Polk. *B.A., Oberlin, 1948; M.D., Woman's Medical College of Pennsylvania, 1952; M.P.H., Columbia, 1958*

Associate Professor of Clinical Pediatrics

Wiener Leblanc. *B.S., Haiti, 1950; M.D., 1956*

Associate Clinical Professors

Vincent E. Hutchinson. *M.B.,B.S., West Indies, 1972*
Yusuf M. Khakoo. *M.B.,B.S., Bombay, 1962*

Assistant Professor

Danielle Laraque. *B.S., California (Los Angeles), 1976; M.D., 1981*

Assistant Professors of Clinical Pediatrics

Araceli R. Ancajas. *M.D., Santo Tomas (Philippines), 1961*
Florence G. Crawford. *B.A., Drew, 1967; M.D., Cornell, 1971; M.P.H., Columbia, 1987*
Josephine Kerr. *B.A., Cornell, 1947; M.D., New York University, 1951*

Assistant Clinical Professors

Elaine J. Abrams. *B.A., Princeton, 1978; M.D., Columbia, 1982*
David Bateman. *B.A., College of Wooster, 1968; M.D., Tufts, 1973*
Kathryn A. Crowley. *B.S., Georgetown, 1976; M.D., Albert Einstein, 1980*
Evelyn Davis. *B.A., City College of New York, 1963; M.D., New York University, 1979*
Serge Fenelon (also Rehabilitation Medicine). *M.D., Lausanne, 1973*
Irene Fennoy. *B.A., Stanford, 1968; M.D., California (San Francisco), 1973*
Catherine A. Hansen. *B.A., Carleton, 1978; M.D., Chicago, 1982*
Rakesh K. Mittal. *M.B.,B.S., Delhi (India), 1978*
Muriel M. Petioni. *B.S., Howard, 1934; M.D., 1937*
Maria Pyrgerou-Kofinas. *M.D., Athens Medical School (Greece), 1975*
Marguerita A. Silvera. *B.S., Brooklyn, 1969; M.D., Albert Einstein, 1973*
Maria S. Suarez. *B.S., Puerto Rico, 1973; M.D., 1978*
Claudina Y. Wallace. *B.S., Howard, 1963; M.D., 1967*
Charles A. Welborn. *M.P.H., M.D., Tulane, 1980*

INSTRUCTORS IN CLINICAL PEDIATRICS

Beverly Anderson, M.D.
Jacqueline Avin, M.D.
Susan E. Champion, M.D.
Sofia Dela Cruz, M.D.
Delores J. Gayle-Thompson, M.D.
Shane P. Hoffman, M.D.
Emily Jackness. M.D.
Margaret A. Jackson, M.D.
Nancy Rosenblum. M.D.
Asma J. Sadiq, M.B.B.S.
Wond-Wossen Taddesse, M.D.
Rezkallah Toro, M.D.

INSTRUCTOR IN CLINICAL NURSING

Carlether G. Burwell, M.A.

At Helen Hayes Hospital

Assistant Professor of Clinical Pediatrics

Richard J. Hershcopf. *B.S., State University of New York (Buffalo), 1970; M.S., M.D., 1974*

At Morristown Memorial Hospital

Professor of Clinical Pediatrics

John T. Truman. *B.A., McMaster, 1957; M.D., Toronto, 1960; M.P.H., Harvard, 1983*

Clinical Professor

Stephen Wang. *B.A., Columbia, 1960; M.D., 1964*

Associate Clinical Professor

Lawrence M. Skolnick. *B.A., Queens (New York), 1968; M.D., New York University, 1972; M.P.H., North Carolina, 1980*

Assistant Professor of Clinical Pediatrics

Mayer Sagy. *M.D., Tel Aviv (Israel) 1972*

Assistant Professors of Clinical Child Development

Patricia M. Hill. *B.A., New York University, 1965; M.A., Columbia, 1966; Ed.M., Rutgers, 1978*
Theodore Andrew Kastner. *B.A., Colgate, 1977; M.D., Connecticut Medical College, 1981*

Assistant Clinical Professors

Pauline Brenholz. *M.D., Albert Einstein, 1973*
William Chernack. *A.B., Cornell, 1966; M.D., New York Medical College, 1970*
Martin Lewis Cohen. *M.D., State University of New York (Upstate), 1967*
Ella Cummins. *B.A., Smith, 1935; M.D., State University of New York (Albany), 1939*
Gary E. Eddey. *B.S., Maryland, 1976; Sc.M., Pittsburgh, 1978; M.D., Cornell, 1983*
Henry J. Kim. *M.D., Seoul National University, 1962*
David E. Knoop. *B.A., Harvard, 1958; M.D., Yale, 1962*
Robert Kornblum. *B.A., Columbia, 1958; M.D., State University of New York (Downstate), 1962*
Mary Ann Lo Frumento. *B.A., Columbia, 1977; M.D., Pennsylvania Medical College, 1981*
William Lupatkin. *B.S., Columbia, 1965; M.S., 1966; Ph.D., 1970; M.D., Miami (Florida), 1974*
Gaines M. Mimms. *B.A., Duke, 1971; M.D., Bruxelles (Belgium), 1979*
Andrew Schenkman. *M.D., Chile, 1976*
Harold Starkman. *B.A., New York University, 1973; M.D., Albert Einstein, 1976*

Assistant Clinical Professor of Child Development

Dana Henning. *B.S., Wisconsin, 1973; Ed.M., Temple, 1976*

INSTRUCTORS IN CLINICAL PEDIATRICS

Fern Gotfried, M.D.
Barry D. Weinreb. M.D.

At Overlook Hospital

Clinical Professor

Gloria Schrager. *B.A., Brooklyn, 1944; M.D., Woman's Medical College of Pennsylvania, 1948*

Associate Clinical Professors

Solomon J. Cohen. *B.A., Cornell, 1944; M.D., Johns Hopkins, 1951*
Stephen M. Golden. *M.D., New York University, 1970*

Assistant Clinical Professors

Joseph I. Boylan. *B.A., Columbia, 1951; M.D., Yale, 1955*
Frederick C. Braun, Jr. *B.S., Georgetown, 1951; M.D., Jefferson, 1955*
Howard S. Britt. *B.A., M.D., Boston, 1970*
Steven Diamond. *B.S., Brooklyn, 1970; M.D., Pennsylvania, 1974*
Burton M. Feinsmith. *B.S., Arkansas, 1949; M.D., Florida, 1951; M.D., Berne, 1961*
Frank P. Frenda. *B.A., Johns Hopkins, 1959; M.D., Padua (Italy), 1965*
Stephen Halpern. *B.A., Rochester, 1972; M.D., Chicago, 1976*
Benjamin H. Josephson. *B.S., North Carolina, 1949; M.D., New York Medical College, 1952*
Joseph Kalbacher. *B.S., Yale, 1944; M.D., Cornell, 1946*
John H. Krikorian. *B.A., Yale, 1958; M.D., Bowman Gray,1963*
Carolkay Lissenden. *B.A., Pennsylvania, 1959; M.D., Woman's Medical College of Pennsylvania, 1964*
Ophelia James Mall. *M.D., Dow Medical College (Pakistan), 1968*
Lewis I. Sank. *B.A., Johns Hopkins, 1957; M.D., 1961*
Frederic A. Schulaner. *B.S., Tufts, 1955; M.D., 1959*
Sandy P. Waran. *M.D., Ceylon, 1968*

ASSOCIATES IN CLINICAL PEDIATRICS

Paul Avondoglio, M.D.
Wesley Boodish, M.D.
Martin Diamond, M.D.
Paul A. Kearney, M.D.
Barry Lauton, M.D.
John F. Vigorita, M.D.
Donald Wight, M.D.

INSTRUCTORS IN CLINICAL PEDIATRICS

Ghitta Eibschutz, M.D.
Carl H. Herman, M.D.
Ilene Hershman, M.D.
Alexander R. Horowitz, M.D.

INSTRUCTORS *(continued)*

Anita Joseph, M.D.
Victor S. Lamberto, M.D.
Shelly Lanzkowsky, M.D.
Donna Mahlstedt, M.D.
Uday C. Mehta, D.C.H.
Alice Merkrebs, M.D.
Bharati S. Mullick, M.D.
John Owen Percy, M.D.
Vinnakota V. Rao, M.D.
Dudley A. Roberts, M.D.
Stanislawa Rosnowski, M.D.
Arvind P. Shah, M.D.
James Sorger, M.D.

At St. Luke's-Roosevelt Hospital Center

Professors

Louis Z. Cooper. *B.S., Yale, 1954; M.D., 1957*
Lenore S. Levine. *B.A., Vassar, 1954; M.D., New York Medical College, 1958*

Professor of Clinical Pediatrics

Doris L. Wethers. *B.S., Queens, 1948; M.D., Yale, 1952*

Associate Professor of Clinical Pediatric Virology

Elena B. Klein. *M.D., State Institute of Medicine and Pharmacy (Rumania), 1953; Ph.D., Institute of Microbiology (Rumania), 1972*

Assistant Professor

Sharon Oberfield. *B.A., Cornell, 1970; M.D., 1974*

Assistant Professor of Clinical Child Development

Madeline W. Appell. *B.A., Queens, 1962; M.A., 1963*

Assistant Professor of Clinical Pediatric Psychology

Jeanne Brooks-Gunn. *B.A., Connecticut College, 1969; Ed.M., Harvard, 1970; Ph.D., Pennsylvania, 1975*

Assistant Professor of Clinical Psychology

Harvey Haynes Mar. *B.S., Washington (Seattle), 1972; M.A., Columbia, 1973; Ph.D., 1977*

Assistant Clinical Professors

Dennis Allendorf. *B.S., Georgetown, 1965; M.D., New York Medical College, 1970*
Garth Alperstein. *M.B.,Ch.B., Cape Town, 1973*
Anastasios Anastasiades. *M.D., Athens, 1950*
Ellis J. Arnstein. *B.S., City College of New York, 1965; M.D., State University of New York (Downstate), 1969*
Saroj Sahgal Bakshi. *M.B., B.S., Government Medical College (Amritsar, India), 1960; M.D., Institute of Postgraduate Medical Education and Research (Chadigarh, India), 1969*
Carmelita V. Britton. *B.S., Rensselaer Polytechnic Institute, 1973; M.D., State University of New York (Albany), 1973*
Richard Gunnar Carlson (also Medicine). *B.S., Trinity (Hartford), 1966; M.D., Columbia, 1970*
Alwyn Theodore Cohall. *B.A., Wesleyan, 1976; M.D., College of Medicine and Dentistry of New Jersey, 1980*
Herbert I. Cohen. *M.D., Johns Hopkins, 1949*
R. Ragabardial Dwarka. *B.S., Hebrew (Jerusalem), 1965; M.D., 1969.*
Joan M. Flanigan. *B.A., Case Western Reserve, 1962; M.D., 1966*
Ranjeet G. Grover. *M.B.,B.S., Christian (India), 1960*
Diane Hochlerin. *B.S., Brooklyn, 1962; M.D., Women's Medical College of Pennsylvania, 1966*
Fadel M. Hochroth. *B.A., Louisville, 1953; M.D., 1957*
Nancy C. Holahan. *B.S., Fordham, 1966; M.D., College of Medicine and Dentistry of New Jersey, 1970*
Harry Kimmel. *B.A., St. Andrews (Bucharest), 1940; M.D., Bucharest, 1949*
Catherine Lodyjensky. *M.D., Montreal, 1943*
Neil Lombardi (also Neurology). *B.A., M.D., Boston, 1967*
Richard Mones. *B.A., Brooklyn, 1967; M.D., New York Medical College, 1971*
James W. Nettleton. *B.S., McPherson, 1962; M.D., Minnesota, 1972*
Farrokh Shahrivar. *M.D., Tehran, 1966*
Karen Soren. *B.A., Harvard, 1978; M.D., New York University, 1982*
Shantha Subramaniam. *M.B.,B.S., Madras (India), 1962*
Max F. Van Gilder. *B.S., Tulane, 1967; M.D., 1971*
Elizabeth Watkins. *B.A., Randolph-Macon Women's College, 1947; M.D., Columbia, 1951*

Assistant Clinical Professor of Family Practice

Grace M. Wang. *B.A., Michigan, 1975; M.D., Cornell, 1982*

Associate Research Scientists

Mathilde Krim. *B.S., Geneva, 1948; Ph.D., 1953*
Joseph A. Sonnabend. *M.B.,Ch.B., Witwatersrand (South Africa), 1956*

ASSOCIATES IN CLINICAL PEDIATRICS

Dora M. Alvarez, M.D.
Ricarda L. Baum, M.D.
Renata Frenkel, M.D.
Thomas H. Hyatt, Jr., M.D.
Ruth E. Kessler, M.D.
Kusum Khanna, M.B.B.S.
Richard Gary Merkler, M.D.
Edward A. Nichols, M.D.
Flora Ramirez, M.D.
Natalie Sarkanich, M.D.
Melissa Matthews Sedlis, M.D.
Barbara E. Strassberg, M.D.
Thelma Verano-Santiago, M.D.
Priscilla Ware, M.D.

INSTRUCTORS IN CLINICAL PEDIATRICS

Carlos Emilio Arzeno, M.D.
Cynthia G. Boakye, M.B.,Ch.B.
Reethamma Daniel, M.B.B.S.
Luminita M. David, M.D.
Morel Duverseau, M.D.
Catherine A. Lenz Canary, M.D.
Roberta E. Leon, M.D.
Pleno J. Moise, M.D.
Michael A. Nagel, M.D.
Amalia Reyes, M.D.
Milagros Santiago, M.D.
Ana B. Soto, M.D.
Geraldine M. Summa, M.D.
Eric C. Weiselberg. M.D.
Stanley E. Whittenburg, M.D.

Pharmacology

David Hosack Professor and Chairman

Brian F. Hoffman. *A.A., Princeton, 1943; M.D., Long Island, 1947*

Professors

J. Thomas Bigger, Jr. (also Medicine). *B.A., Emory, 1955; M.D., Georgia, 1960*
John Bilezikian (also Medicine). *B.A., Harvard, 1965; M.D., Columbia, 1969*
Norman Kahn (also Dental & Oral Surgery). *B.A., Columbia, 1954; D.D.S., 1958; Ph.D., 1964*
Harold C. Neu (also Medicine). *B.A., Creighton, 1956; M.D., Johns Hopkins, 1960*
Michael R. Rosen (also Pediatrics). *B.A., Wesleyan 1960; M.D., State University of New York (Downstate), 1964*
Wilbur H. Sawyer (Gustaveus A. Pfeiffer Professor). *B.A., Harvard, 1942; M.D., 1945; Ph.D., 1950*
Hsueh-Hwa Wang. *M.D., National Central (Nanking), 1946*
Andrew L. Wit. *B.S., Bates, 1963; Ph.D., Columbia, 1968*

Adjunct Professors

Ira Cohen. *B.A., Columbia, 1969; M.D.,Ph.D., New York University, 1974*
Allan H. Conney (in Anesthesiology). *B.S., Wisconsin, 1952; M.S., 1954; Ph.D., 1956*
Paul F. Cranefield. *Ph.D., Wisconsin, 1946; Ph.D., 1951; M.D., Albert Einstein, 1964*
Peter K.T. Pang. *B.Sc., Hong Kong, 1964; M.S., Yale, 1968; Ph.D., 1970*
Jurg Schneider. *M.D., Basle, Switzerland, 1945*
Sidney Spector (also Anesthesiology). *B.S., Denver, 1948; M.S., 1950; Ph.D., Jefferson, 1956*
Robert M. Weiss. *B.S., Franklin and Marshall, 1957; M.D., State University of New York (Downstate), 1960*

Professor of Clinical Psychopharmacology

Michael Stanley (in Psychiatry). *M. Phil., City University of New York, 1978; M.D., Mt. Sinai, 1979*

Senior Research Scientist

Peter Danilo, Jr. *Ph.D., Columbia, 1974*

Associate Professors

Daniel J. Goldberg (in the Center for Neurobiology & Behavior). *Ph.D., Yale, 1974*
Joseph Graziano (in Pediatrics). *B.S., Long Island, 1967; Ph.D., Rutgers, 1971*
Richard Paul Kline. *B.A., Harvard, 1968; M.S., Pennsylvania, 1970; Ph.D., 1975*
Richard B. Robinson. *Ph.D., Illinois, 1975*
Steven A. Siegelbaum (in the Center for Neurobiology & Behavior). *Ph.D., Yale, 1978*

Adjunct Associate Professors

Marvin R. Blumenthal. *B.S., Michigan, 1946; M.D., Columbia, 1949*
Leslie A. Leinwand. *B.S., Cornell, 1972; Ph.D. Yale, 1977*
Robert S. Sloviter (in Neurology) *B.S., Drexel, 1973; Ph.D., Pennsylvania State, 1978*

Research Scientists

Kenneth H. Dangman. *B.S., Bucknell, 1971; M.A., M. Phil., Columbia, 1974; Ph.D., 1977*
Alan M. Jeffrey (also Public Health). *B.S., Hull (United Kingdom), 1966; Ph.D., College of North Wales (United Kingdom), 1970*

Assistant Professors

Penelope Altman Boyden. *B.A., Mills College, 1970; M.A., M. Phil, Columbia, 1976; Ph.D., 1979*
Robert M. Clancy (in Medicine). *B.A., St. Louis, 1974; Ph.D., Illinois, 1982*
Karl P. Dresdner. *B.A., Wake Forest, 1971; M.S., Cornell, 1981; Ph.D., Mt. Sinai, 1983*
Lisa Ebihara. *B.S., Northwestern, 1975; Ph.D., Duke, 1980; M.D., 1981*
Steven Jay Feinmark (in Medicine). *B.A., Johns Hopkins, 1974; M.Sc., George Washington, 1977; Ph.D., 1980*
Daniel E. Lemons (in Rehabilitation Medicine). *B.A., Goshen 1975; M.S., Portland State, 1978; M.Phil., Columbia, 1982; Ph.D., 1982*
Susan F. Steinberg (also Medicine). *B.S., Massachusetts Institute of Technology, 1972; M.D., Harvard, 1976*
Gea-Ny Tseng. *B.S., National University of Taiwan, 1977; M.S., 1979; M. Phil., 1981; Ph.D., 1985*
Judah Z. Weinberger (also Medicine). *B.A., Columbia, 1974; M.A., 1975, M.D.,Ph.D., Harvard, 1980*

Adjunct Assistant Professors

Kwung-Ping Fu. *B.S., National University of Taiwan, 1966; M.S., Kansas State, 1970; Ph.D., Rutgers, 1974*
Edward B. Kirsten. *B.S., Fairleigh Dickinson, 1962; M.Sc., New York University, 1966; Ph.D., College of the City of New York, 1969*
Walter Spinelli. *B.A., Milan (Italy), 1973; M.S., 1978; Ph.D., Columbia, 1984*

Associate Research Scientists

Donald William Burmeister. *B.S., City College of New York, 1975; Ph.D., City University of New York, 1982*
Stephen M. Dillon. *B.S.E., Pennsylvania, 1976; M.S.E., Ph.D., 1984*
Martha E. Heath. *B.S., California (Hayward), 1973; M.S., 1975; Ph.D., Cambridge (Great Britain), 1979*
Victor Molina-Viamonte. *M.D., Universidad Salvador (Buenos Aires), 1981*
Steve Sorota. *B.S., Connecticut, 1977; Ph.D., 1986*
Andrea Volterra. *B.A., Milan (Italy), 1982; Ph.D., 1985*

At Mary Imogene Bassett Hospital

Assistant Professor of Clinical Pharmacology

Joseph S. Bertino, Jr. (in Medicine). *B.S., State University of New York (Buffalo), 1976; Dr. Pharm., 1978*

Physiology and Cellular Biophysics

John C. Dalton Professor and Chairman

Samuel C. Silverstein. *B.A., Dartmouth, 1958; M.D., Albert Einstein, 1963*

Professors

Qais Al-Awqati (also Robert F. Loeb Professor of Medicine). *M.B.,Ch.B., Baghdad, 1962*
Shu Chien. *M.B., National University of Taiwan, 1954; Ph.D., Columbia, 1957*
Michel Ferin (in Obstetrics & Gynecology and the Center for Reproductive Sciences). *M.D., Louvain, 1964*
Michael Field (also Medicine). *B.A., Chicago, 1953; M.D., Boston, 1959*
Jorge Fischbarg (in Ophthalmology). *M.D., Buenos Aires, 1962; Ph.D., Chicago, 1971*
Claude P. J. Ghez (also Neurology) (in the Center for Neurobiology & Behavior). *B.Sc., Geneva, 1960; M.D., Harvard, 1964*
Eric R. Kandel (University Professor) (also Psychiatry). *B.A., Harvard, 1952; M.D., New York University, 1956*
Irving Kupferman (in Psychiatry) (in the Center for Neurobiology & Behavior). *Ph.D., Chicago, 1964*
Frederick R. Maxfield (also Pathology) (in the Center for Neurobiology & Behavior). *B.S., Union, 1971; Ph.D., Cornell, 1977*
Mero Nocenti. *B.A., West Virginia, 1951; M.S., 1952;: M.D., Rutgers, 1955*
David Schachter. *B.S., New York University, 1946, M.D., 1949*
James H. Schwartz (also Neurology) (in the Center for Neurobiology & Behavior). *B.S., Columbia, 1954; M.D., New York University, 1959; Ph.D., Rockefeller, 1964*
Robert K.S. Wong (also Neurology) (in the Center for Neurobiology & Behavior). *B.S., McGill, 1970; Ph.D., Alberta, 1975*

Senior Research Scientist

Shunichi Usami. *M.B., Sheffield, 1972; Ph.D., London, 1979*

Associate Professors

Martin Blank. *B.S., College of the City of New York, 1954; M.D., Columbia, 1957; Ph.D., Cambridge, 1959*

Kung-Ming Jan (also Medicine). *M.B., National University of Taiwan, 1967; Ph.D., Columbia, 1971*
Martin G. Low. *Ph.D., Birmingham (England), 1975*
David M. Stern. *M.D., Montpelier (France), 1972; D.Sc., Paris, 1978*

Assistant Professors

Yvon E. Cayre (also Medicine). *M.D., Montpelier (France), 1972; D.Sc., Paris, 1978*
Jane Dodd (also in the Center for Neurobiology & Behavior). *Ph.D., Cambridge (England), 1979*
Amy B. MacDermott (in the Center for Neurobiology & Behavior). *B.A., Wells, 1973; Ph.D., Vermont, 1978*
Ofra Weinberger. *B.S., Brooklyn, 1976; Ph.D., Harvard, 1981*

Associate Research Scientists

Richard E. Abbott. *Ph.D., Columbia, 1972*
Lisa A. Cowen. *B.S., Brandeis, 1976; M.S., Columbia, 1978; Ph.D., Rutgers, 1983*
John D. Loike. *B.A., Yeshiva, 1971; Ph.D., 1976*
Lily M. Soo. *Ph.D., 1973*

At St. Luke's-Roosevelt Hospital Center

Assistant Professor

Jahar Bhattacharya (in Medicine). *M.B.,B.S., India Institute of Medicine (New Delhi), 1968; M.S., Oxford, 1973; D.Phil., 1976*

Psychiatry

Lawrence Kolb Professor, Dean, and Chairman

Herbert Pardes. *B.S., Rutgers, 1956; M.D., State University of New York (Downstate), 1960*

At New York State Psychiatric Institute

Professors

Myron Hofer. *B.A., Harvard, 1954; M.D., 1958*
Eric R. Kandel (University Professor) (also Physiology & Cellular Biophysics) (in the Center for Neurobiology & Behavior). *B.A., Harvard, 1952; M.D., New York University, 1956*
Donald F. Klein. *B.A., Colby, 1947; M.D., State University of New York (Downstate), 1952*
David Shaffer (Irving Phillips Professor of Child Psychiatry) (also Pediatrics). *M.B.,Ch.B., University of London, 1961; Academic Psychological Medicine, 1969*
Robert L. Spitzer. *B.A., Cornell, 1953; M.D., New York University, 1957*

Professor of Dentistry

Austin H. Kutscher. *B.A., New York University, 1945; D.D.S., Columbia, 1946*

Professor of Medical Psychology

Irving Kupferman (also Physiology & Cellular Biophysics) (in the Center for Neurobiology & Behavior). *Ph.D., Chicago, 1964*

Professors of Public Health

Denise Kandel (Sociomedical Sciences). *Ph.D., Columbia, 1960*
Myrna M. Weissman (Epidemiology). *M.S.W., Pennsylvania, 1958; Ph.D., Yale, 1974*

Professor of Social Sciences

Bruce Dohrenwend (also Public Health) (Epidemiology). *B.A., Columbia, 1950; Ph.D., Cornell, 1955*

Professors of Clinical Psychiatry

Miron Baron. *M.D., Tel Aviv, 1972*
H. Donald Dunton (in Pediatrics). *M.D., Rochester, 1945*
L. Erlenmyer-Kimling (in Genetics & Development). *B.S., Columbia, 1957; Ph.D., 1960*
Ronald R. Fieve. *B.A., Wisconsin, 1952; M.D., Harvard, 1955*
Archibald R. Foley. *B.A., Queens (Canada), 1943; M.D., 1947; M.S., Columbia, 1962*
Alexander H. Glassman. *B.A., Illinois, 1956; M.D., 1958*
Barry J. Gurland (John E. Borne Professor) (in the Center for Geriatrics & Gerontology). *M.B.,Ch.B., Capetown, 1955*
Josesph Jaffe (in Neurological Surgery). *B.A., Columbia, 1944; M.D., Baylor, 1957*
Frederic Kass. *B.A., Harvard, 1966; M.D., Johns Hopkins, 1970*
Donald S. Kornfeld. *B.S., Franklin and Marshall, 1950; M.D., Yale, 1954*
Roger MacKinnon. *M.D., Columbia, 1950*
Sidney Malitz. *B.S., Tulane, 1943; M.D., Chicago Medical School, 1946*
John M. Oldham. *B.S., Duke, 1962; M.D., Baylor, 1967*
Ethel Person. *B.A., Chicago, 1956; M.D., New York University, 1960*
Frederic M. Quitkin. *B.A., Princeton, 1958; M.D., State University of New York (Downstate), 1962*
John D. Rainer (in Genetics & Development). *M.D., Columbia, 1951*
Ronald O. Rieder. *B.A., Harvard, 1958; M.D., 1964*
James. H. Ryan. *B.A., Yale, 1952; M.D., Harvard, 1956*
Michael Stone. *B.A., Cornell, 1954; M.D., 1958*

Professor of Clinical Genetics & Development

Jurg Ott. *Ph.D., Zurich (Switzerland), 1967; M.S., Washington 1972*

Professor of Clinical Neurochemistry

Hadassah Tamir (in Anatomy & Cell Biology). *M.S., Hebrew (Jerusalem) 1955; M.D., Israel Institute of Technology, 1959*

Professors of Clinical Psychology

Judith V. Becker. *B.S., Gonzaga (Washington), 1966; M.S., Eastern Washington State, 1968; Ph.D., Mississippi, 1975*
Anke Ehrhardt. *Ph.D., Dusseldorf, 1969*
Jean Endicott. *B.A., Connecticut (Storrs), 1958; M.A. Columbia, 1959; Ph.D., 1965*
Rachel Gittelman-Klein. *B.A., College of the City of New York, 1957; Ph.D., Columbia, 1966*

Professor of Clinical Psychiatric Social Work

Janet B. Williams (in Psychiatry and Neurology). *B.S., Tufts, 1969; M.S., Southeastern Massachusetts, 1972; M.S.W., Columbia, 1974*

Professor of Clinical Psychopharmacology

Michael Stanley. *M. Phil., City University of New York, 1978; Ph.D., Mt. Sinai, 1979*

Professors of Clinical Public Health

Ruth Bennett (in the Center for Geriatrics & Gerontology and Psychiatry). *Ph.D., Columbia, 1962*
Susan E. Hodge. *B.A., Antioch, 1968; D.Sc., Washington, 1976*

Clinical Professors

Anne E. Bernstein. *B.A., Barnard, 1958; M.D., Albert Einstein, 1962*
Hector Bird. *B.A., Michigan, 1960; M.D., Yale, 1965*
Paul A. Bradlow. *B.A., Pennsylvania, 1941; M.A., 1942; M.D., Hahnemann, 1946*
June J. Christmas. *A.B., Vassar, 1945; M.D., Boston, 1949*
Richard Druss. *B.A., Yale, 1955; M.D., Columbia, 1959*
Richard A. Gardner. *B.A., Columbia, 1952; M.D., State University of New York, 1956*
Willard Gaylin. *B.A., Harvard, 1947; M.D., Case Western Reserve, 1951*
Clarice J. Kestenbaum. *B.A., California (Los Angeles), 1950; M.D., 1960*
Alexander N. Levay. *B.A., Wesleyan, 1953; M.D., Rochester, 1957*
Donald Meyers. *B.S., Franklin and Marshall, 1946; M.D., Jefferson, 1950*
Helen Myers. *B.A., Hunter, 1945; M.D., Columbia, 1957*
Henry Spitz *B.A., Lafayette (Pennsylvania), 1961; M.D., New York Medical College, 1965*
Ralph N. Wharton. *B.A., Harvard, 1953; M.D., Columbia, 1957*

Adjunct Research Scientists

Glorisa Canino. *M.A., Puerto Rico, 1969; Ph.D., Temple, 1974*
Itzhak Levav. *M.D., Buenos Aires, 1962; M.S., Columbia, 1969*

Associate Professor of Medical Psychology

Jacques Rutschmann. *D.Sc., Geneva, 1956*

Associate Professor of Neuropathology

Mavis Kaufman. *B.A., Radcliffe, 1941; M.D., New York Medical, 1944*

Associate Professor of Pathology

James E. Goldman. *B.A., Amherst, 1968; M.D., Ph.D., New York University, 1976*

Associate Professor of Public Health

Patrick E. Shrout (in the Sergievsky Center). *B.A., St. Louis, 1972; Ph.D., Chicago, 1976*

Associate Professors of Clinical Psychiatry

Amiram Barkai. *M.S., Hebrew (Jerusalem), 1963; Ph.D., 1970*
Jerry Finkel (also Medicine). *B.A., Columbia, 1957; M.D., 1961*
David V. Forrest. *B.A., Princeton, 1960; M.D., Columbia, 1964*
Abby Joy Fyer. *B.A., Reed, 1969; M.D., New York University, 1973*
Jack Matthew Gorman. *B.A., Pennsylvania, 1973; M.D., Columbia, 1977*
Laurence L. Greenhill. *B.A., Columbia, 1963; M.D., Albert Einstein, 1967*
Wilma M. Harrison. *B.A., Barnard, 1960; M.D., New York Medical College, 1966*
Michael Liebowitz. *B.A., Yale, 1965; M.D., 1969*

Jerrold S. Maxmen. *B.A., Wayne State, 1963; M.D., 1967*
Richard Mayeux (also Neurology). *B.S. Oklahoma State, 1968; M.D., 1972*
Patrick J. McGrath, Jr. *B.S., Seton Hall, 1970; M.D., Columbia, 1974*
Sukdeb Mukherjee. *M.D., Nilratan Sircar Medical College (India), 1969*
Steven Paul Roose. *B.A., Harvard, 1970; M.D., Mt. Sinai, 1974*
L. Mark Russakoff. *B.A., Clark, 1966; M.D., State University of New York (Downstate), 1971*
Jonathan W. Stewart. *B.A., Swarthmore, 1967; M.D., Yale, 1971*
Bernard T. Walsh. *B.A., Princeton, 1967; M.D., Harvard, 1972*

Associate Professors of Clinical Psychology

W. Crawford Clark. *Ph.D., Michigan, 1958*
David Friedman. *B.A., Queens (New York), 1965; M.A., 1968; Ph.D., City University of New York, 1972*
Dennis D. Kelly. *Ph.D., Columbia, 1966*
Heino F. L. Meyer-Bahlburg. *Ph.D., Dusseldorf, 1970*
Judith Rabkin. *B.A., Wellesley, 1958; M.D., New York University, 1967; M.P.H., Columbia, 1974*
Harold A. Sackeim. *B.A., Columbia, 1972; B.A., M.A., Oxford (England), 1974; Ph.D., Pennsylvania, 1977*
Michael Terman. *B.A., Columbia, 1964; M.S., Brown, 1966; Ph.D., 1968*

Associate Professor of Clinical Biochemical Psychiatry

George Alexander. *B.S., Hobart, 1949; Ph.D., Rutgers, 1953*

Associate Professors of Clinical Neurobiology & Behavior

Robert D. Hawkins. *B.A., Stanford, 1968; M.A., California (San Diego), 1969; Ph.D., 1973*
John D. Koester (in the Center for Neurobiology & Behavior). *B.A., Wooster, 1965; M.D., Columbia, 1971*
Samuel M. Schacher (in Psychiatry and Anatomy & Cell Biology). *B.S., Columbia, 1971; M.A., 1974; Ph.D., 1976*
Klaudiusz Weiss (in the Center for Neurobiology & Behavior). *M.S., University of Warsaw, 1967; Ph.D., State University of New York (Stony Brook), 1973*

Associate Professors of Clinical Neuropsychology

Isak Prohovnik (also Neurology and Radiology). *M.S., Lund (Sweden), 1980; Ph.D., 1981*
Nancy Sabin Wexler. *Ph.D., Michigan, 1970*

Associate Professor of Clinical Psychopharmacology

Thomas Cooper. *M.A., Fairleigh Dickinson University, 1970*

Associate Professor of Clinical Public Health

Madelyn S. Gould (also Public Health) (Epidemiology). *B.S., City University of New York (Brooklyn), 1972; M.A., Princeton, 1974; M.P.H., Columbia, 1976; Ph.D., 1980*

Associate Clinical Professors

Clemens Christian Beels. *B.A., Rochester, 1960; M.D., Harvard, 1963*
Stanley Bone. *B.S., Massachusetts Institute of Technology, 1970; M.D., Mt. Sinai, 1974*
Ian Alberto Canino. *B.S., Georgetown, 1966; M.D., Puerto Rico, 1970*
William J. Chambers. *B.A., Princeton, 1967; M.D., Tufts, 1972*
Stanley Coen. *B.A., Columbia, 1958; M.D., 1962*

Francine Cournos. *B.S., City College of New York, 1967; M.D., New York University, 1971*
Gladys Egri. *B.A., Barcelona, 1949; M.D., 1962*
Gloria Faretra. *M.D., Georgetown, 1952*
Rodman Gilder, Jr. *M.D., Columbia, 1944*
Robert Glick. *B.A., Yale, 1962; M.D., Columbia, 1966*
Robert Goldstein. *M.D., Chicago, 1965; J.D., Columbia, 1984*
Arthur Green (in Pediatrics). *B.A., Rochester, 1951; M.D., Amsterdam, 1955*
Stanley Heller. *B.A., Yale, 1956; M.D., Columbia, 1960*
Steven E. Hyler. *B.A., New York University, 1971; M.D., New York Medical College, 1975*
Lila J. Kalinich. *B.A., Northwestern, 1966; M.D., 1969*
Stuart L. Kaplan. *B.A., George Washington, 1961; M.D., 1965*
Neil B. Kavey. *B.A., Princeton, 1965; M.D., Columbia, 1969*
Thomas Kranjac. *B.A., New York University, 1970; M.D., New York Medical College, 1975*
Frederick M. Lane. *M.D., Yale, 1953*
Burton A. Lerner. *B.A., Columbia, 1953; M.D., 1957*
Stephen Levitan. *B.A., New York University, 1961; M.D., State University of New York (Buffalo), 1965*
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Eric Marcus (also Medicine). *B.A., Columbia, 1965; M.D., Wisconsin, 1969*
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Michael Milano. *B.A., Harvard, 1960; M.D., Stanford, 1958*
Philip R. Muskin. *B.A., Cornell, 1969; M.D., New York Medical College, 1974*
John F. O'Connor. *B.S., Columbia, 1948; M.D. State University of New York (Downstate), 1952*
Lewis Opler. *B.A., Harvard, 1969; Ph.D., Albert Eistein, 1975; M.D., 1976*
Seymour Post. *M.D., New York University, 1947*
Arnold Rothstein. *B.A., Brown, 1958; M.D., Chicago Medical School, 1962*
Daniel Shapiro. *M.D. Illinois, 1945*
Leonard M. Sheehy. *B.A., Harvard, 1960; M.D., McGill, 1968*
Andrew Skodol. *B.A., Yale, 1967; M.D., Pennsylvania, 1971*
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Daniel T. Williams. *B.A., Columbia, 1965; M.D., Cornell, 1969*

Associate Clinical Professors of Medical Psychology

Gordon G. Ball (in Psychiatry). *B.A., London, 1956; Ph.D., Stanford, 1963*
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Kenneth Frank. *B.A., New York University, 1961; M.S., Columbia, 1964; Ph.D., 1967*
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Mary Jane Rotheram. *B.A., California (Irvine), 1971; Ph.D., Southern California, 1977*
Gail A. Wasserman. *B.A., Pennsylvania, 1967; M.D., Illinois, 1970; Ph.D., City University of New York, 1977*

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Research Scientist

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Jean L. Cadet (also Neurology). *M.D., Columbia, 1979*

Assistant Professors of Neurogenetics

T. Conrad Gilliam (also Neurology). *Ph.D., Missouri, 1981*
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Assistant Professors of Public Health

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Assistant Professors of Clinical Psychiatry

Stan David Arkow. *B.S., State University of New York (Stony Brook), 1973; M.D., Columbia, 1977*
Richard P. Brown. *M.D., Columbia, 1977*
Davangere P. Devenand. *M.B.,B.S., Christian (India), 1978*
Sheldon Frank. *B.A., Swarthmore, 1960; M.A., Pennsylvania, 1962; M.D., Johns Hopkins, 1966*
Arthur E. Gillman. *B.S., Vermont, 1947; M.D., New York Medical College, 1950*
Kenneth Greenspan. *M.D., Albert Einstein, 1963*
Eric Hollander. *B.A., Brandeis, 1978; M.D., State University of New York (Downstate), 1982*
Andrei-Claudian Jaeger. *M.D., Medico-Pharmaceutical Institute (Romania), 1977*
Charles A. Kaufmann. *B.S., Massachusetts Institute of Technology, 1971; M.D., Columbia, 1977*
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Lawrence Sharpe. *M.B.,B.S., London, 1954*
Jonathan M. Silver. *B.A., Duke, 1975; M.D., Albert Einstein, 1979*
Paul Douglas Trautman. *B.A., Lehigh, 1971; M.D., State University of New York (Buffalo), 1975*
Heather J. Walter. *B.A., Pacfic Union, 1971; M.D., Loma Linda, 1974*

Assistant Professor of Clinical Neuropsychology

Yaakov Stern (also Neurology). *B.A., Tuoro (New York), 1975; M.A., City University of New York, 1982; Ph.D., 1983*

Assistant Professors of Clinical Psychology

Susan Bram. *B.A., New York University, 1969*
Melinda Broman. *B.A., Cornell, 1976; M.A., Columbia, 1969; Ph.D., Rutgers, 1977*
Edward Scott Charles. *B.A., City University of New York, 1965; M.A., 1968; Ph.D., New School for Social Research, 1971*
Barbara Ann Cornblatt. *B.A., State University of New York (Syracuse), 1964; M.B.A., City University of New York, 1977; Ph.D., New School for Social Research, 1978*
Donald J. Dillon. *Ph.D., Fordham, 1955*
Robert Dworkin (also Anesthesiology). *B.A., Pennsylvania, 1971; Ph.D., Harvard, 1977*
William P. Fifer. *B.S., Georgetown, 1970; M.A., North Carolina (Greensboro), 1976; Ph.D.,1980*
Richard W. Gaines. *B.A., Middlebury, 1969; Ph.D., New York University, 1985*
Rita Haggerty. *B.A., Fordham, 1970; Ph.D., State University of New York (Stony Brook), 1976*
Helen Hanesian. *B.S., State University of New York (Buffalo), 1953; M.A., Columbia, 1961; Ed.D., 1966*
Donald E. Hutchings (also Pediatrics). *Ph.D., Columbia, 1965*
Stephen E. Karpiak. *Ph.D., Fordham, 1972*
Robin Marks Kaufman (in the Institute of Human Nutrition). *B.S., Cornell, 1976; M.S., Tufts, 1979; Ph.D., 1981*
Cheryl Koopman. *B.A., California (Berkeley), 1972; M.A., California (Los Angeles) 1975; Ph.D., Virginia, 1979*
Dolores Kreisman. *B.A., Barnard, 1953; Ph.D., Columbia, 1969*
Jesse Bernard Levine. *Ph.D., George Washington, 1976*
Ronnie Lee Levine. *B.S., Cornell, 1971; M.A., Adelphi, 1973; Ph.D., 1976*
Salvatore Mannuzza. *Ph.D., City University of New York, 1982*
Christine M. Moon. *B.A., Whitman, 1971; M.A., Columbia 1983; Ph.D., 1985*
Michael M. Myers. *B.A., Connecticut (Storrs), 1971; M.S., 1974; Ph.D., 1976*
John C. Piacentini. *B.S., Oregon, 1980; M.S., Georgia, 1984; Ph.D., 1986*
Stephanie Portnoy. *Ph.D., Columbia, 1968*
Michael Potegal. *B.S., City College of New York, 1963; Ph.D., Massachusetts Institute of Technology, 1969*
Michael Seth Quittman *B.A., Queens (New York), 1968; Ph.D., Purdue, 1974*
Sergio Rothstein. *B.A., Yeshiva, 1965; Ph.D., 1973*
Harry N. Shair. *B.A., Columbia, 1975; Ph.D., City University of New York (Hunter), 1986*
Richard P. Sloan. *B.S., Union (Schenectady), 1970; Ph.D., New School for Social Research, 1978*
Cornelis Stokman. *B.A., Nijmegen (Holland), 1962; M.A., Columbia, 1964; Ph.D., 1967*
Jeffrey Young. *B.A., Yale, 1972; Ph.D., Pennsylvania, 1978*
Brandon G. Yongue. *B.A., Florida, 1977; Ph.D., Illinois, 1985*

Assistant Professors of Clinical Psychiatric Social Work

Ruth Corn. *B.A., New York University, 1955; M.S.W., 1968*
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Assistant Professors of Clinical Public Health

Deborah S. Hasin (Epidemiology). *B.A., California (Los Angeles), 1972; M.S., Columbia, 1980; M.Phil., 1986; Ph.D., 1986*
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Priya J. Wickramaratne (Biostatistics). *B.S., London (England), 1968; M.S. Stanford, 1970; Ph.D., Yale, 1984*

Assistant Professors of Clinical Social Sciences

Alexander Askenazy. *Ph.D., Columbia, 1962*
Muriel Hammer. *Ph.D., Columbia, 1961*

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Syed Abdullah. *M.A., Calcutta, 1961; M.B., 1962*
Geary Edward Ahern. *B.A., Fordham, 1967; M.D., State University of New York (Downstate), 1975*
Morton J. Aronson. *B.A., Temple, 1944; M.D., 1947*
John A. Atchley. *M.D., Columbia, 1944*
Athanasia Balkoura. *M.D., Athens, 1960*
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Robinette Bell. *B.A., Smith College, 1951; M.D., Columbia, 1962*
Raymond Bernick. *B.S., Dalhousie, 1956; M.D., 1961*
Carol A. Bernstein. *B.A., Bryn Mawr, 1969; M.A., Antioch, 1971; M.D., Columbia, 1980*
Edward N. Brennan. *B.S., Trinity (Hartford), 1951; M.D., Yale, 1955*
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A. Alexis Brosen. *B.A., City College of New York, 1973; M.D., New York University, 1977*
Paul F. Califano. *B.A., Adelphi, 1950; M.D., State University of New York (Downstate), 1954*
Robert J. Campbell. *B.A., Wisconsin, 1944; M.D., Columbia, 1948*
Raphael B. Campeas. *B.A., Tuoro (New York), 1975; M.D., Mt. Sinai, 1979*
Harvey R. Chertoff. *B.A., Columbia, 1962; M.D., Albert Einstein, 1966*
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Frances Cohen. *B.A., Harvard, 1971; M.D., Columbia, 1975*
Max P. Cohen. *M.D., New York Medical College, 1947*
Louise Coleman. *M.D., Southern California, 1948*
Barbara H. De Betz. *M.D., Miami, 1970*
Zira De Fries. *M.D., New York Medical College, 1942*
Susan M. Deakins. *B.A., Northampton, 1958; M.D., Columbia, 1963*
Michael J. Devlin. *A.B., Princeton, 1978; M.D., Columbia, 1982*
Leonard Diamond. *B.A., Tulane, 1949; M.D., State University of New York (Downstate), 1973*
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Jennifer I. Downey. *B.A., Harvard, 1967; M.A., California (Berkeley), 1968; M.D., Case Western Reserve, 1976*
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Robert M. Elvove. *B.A., Michigan, 1962; M.D., Chicago, 1966*
Maureen D. Empfield. *M.D., Albert Einstein, 1977*
Charles F. Entelis. *M.D., Virginia, 1974*
Katherine Falk. *B.A., Barnard, 1966; M.D., Mt. Sinai, 1970*
Robert E. Feinstein. *B.A., Michigan, 1974; M.D., New York University, 1978*
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William A. Fisher. *B.A., Yale, 1976; M.D., Columbia, 1980*
James W. Flax. *M.D., Minnesota, 1974; M.P.H., Columbia, 1980*
Gerald I. Fogel. *M.D., Michigan, 1962*
Bruce Forester. *B.A., Dartmouth, 1961; M.D., Columbia, 1965*
Nelson B. Freimer. *B.A., Pennsylvania, 1978; M.D., Ohio State, 1982*
Eugene A. Friedberg. *M.D., State University of New York (Buffalo), 1958*
Cathy Jayne Friedman. *M.D., State University of New York (Downstate), 1981*
Lee R. Gardner. *B.A., Barnard, 1955; M.D., Columbia, 1959*
Myron Gershberg. *B.A., Columbia, 1955; M.A., 1956; M.D., State University of New York (Buffalo), 1960*
Iona H. Ginsburg. *B.A., Vassar, 1953; M.D., Columbia, 1957*
Richard J. Glavin. *B.A., Cornell, 1951; M.D., Rochester, 1955*
David M. Gottesman. *B.S., Wesleyan, 1962; M.D., Albany, 1966*
Elisabeth B. Guthrie. *B.A., Sarah Lawrence, 1976; M.D., Yeshiva, 1981*
Deborah S. Hamm. *B.A., B.M., Oberlin, 1975; M.D., Baylor, 1980*

Deena R. Harris. *B.A., Simmons, 1973; M.D., Case Western Reserve, 1980*
Martin V. Hart. *M.D., State University of New York (Downstate), 1950*
Julie A. Hatterer. *B.A., Princeton, 1979; M.D., Cornell, 1983*
Myra S. Hatterer. *B.A., New York University, 1955; M.D., New York Medical College, 1959*
Gregory Heimarc. *B.A., St. Olaf (Minnesota), 1956; M.D., Columbia, 1960*
Michelle L. Hirsch. *B.S., City College of New York, 1968; M.D., State University of New York (Syracuse), 1973*
Joel S. Hoffman. *B.A., Harvard, 1959; M.D., Columbia, 1962*
Ewald Horwath. *B.A., Chicago, 1975; M.D., 1979*
Wynn K. Jackson. *B.A., Oklahoma., 1970; M.D., Chicago, 1979*
Roberta Jaeger. *B.A., Barnard, 1963; M.D., Columbia, 1966*
David Jaffe. *M.D., Jefferson, 1950*
David Alan Kahn. *B.A., Haverford, 1975; M.D., Columbia, 1979*
Jeffrey Paul Kahn. *B.A., Swarthmore, 1975; M.D., Columbia, 1979*
Sherry P. Katz-Bearnot. *B.A., Barnard, 1973; M.D., Mt. Sinai, 1977*
Bonnie Kaufman. *M.D., Columbia, 1975*
Richard J. Kavoussi. *B.A., Johns Hopkins, 1977; M.D., New York Medical College, 1981*
Jules D. Kerman. *M.D., Albert Einstein, 1972; Ph.D., Yeshiva, 1977*
Robert Michael Kertzner. *B.A., Cornell, 1974; M.D., Columbia, 1978*
Ralph Klein. *B.A., Hamilton, 1966; M.D., New York University, 1970*
Harold S. Koplewicz. *B.S., Maryland, 1973; M.D., Albert Einstein, 1978*
Elliot Mark Kranzler. *B.A., Johns Hopkins, 1973; M.D., Albert Einstein, 1978*
Richard B. Krueger. *B.A., Albion, 1967; M.D., Harvard, 1977*
Peter Laderman. *B.S., College of the City of New York, 1940; M.D., New YorkMedical College, 1947*
Lucy Bergson La Farge. *B.A., Radcliffe, 1969; M.D., Albert Einstein, 1976*
Leon Lefer. *B.A., New York University, 1941; M.D., Lausanne, 1952*
Naomi Leiter. *B.A., Brooklyn, 1956; M.D., State University of New York (Buffalo), 1960*
Andrew Paul Levin. *M.D., Pennsylvania, 1980*
David Y. Levine. *M.D., New York University, 1961*
Owen William Lewis. *B.A., Pennsylvania, 1972; M.D., Mt. Sinai, 1976*
Barbara Ann Liskin (also Pediatrics). *M.D., Columbia, 1979*
Laurence S. Lorefice. *B.A., Johns Hopkins, 1971; M.P.H., Harvard, 1979; M.D., Pennsylvania, 1975*
Andrew C. Lotterman. *B.A., Yale, 1972; M.D., Mt. Sinai, 1976*
Dolores Malaspina. *B.A., Boston, 1974; M.S., Rutgers, 1978; M.D., College of Medicine and Dentistry of New Jersey, 1983*
Lisa Ann Mellman. *B.A., Colorado (Boulder), 1976; M.D., Case Western Reserve, 1981*
Frederick Mendelsohn. *B.A., Harvard, 1954; M.D., Stanford, 1958*
Joanne Moore. *M.D., Harvard, 1982*
Donna Moreau. *B.A., State University of New York (Stony Brook), 1971; M.D., 1980*
Craig M. Morris. *B.S., City College of New York, 1966; M.D., Albert Einstein, 1970*
Joseph C. Napoli. *B.A., Fordham, 1968; M.D., Georgetown, 1972*
Edward V. Nunes. *B.A., Dartmouth, 1977; M.D., Connecticut, 1981*
David Douglas Olds. *B.A., Yale, 1960; M.D., Columbia, 1981*
Louis Padovano. *B.S., Georgetown, 1952; M.D., 1956*
Patricio R. Paez. *M.D., Chile, 1972*
David Peretz. *B.A., College of the City of New York, 1954; M.A., Columbia, 1955; M.D., New York University, 1959*
Nancy Q. Petersmeyer. *B.A., Yale, 1976; M.D., Harvard, 1980*
Jeffrey M. Pines. *B.A., Columbia, 1969; M.D., 1973*
Leslie L. Powers. *M.D., Dartmouth, 1975*
Humberto Quintana. *B.A., City University of New York 1972; M.D., State University of New York (Downstate), 1977*
Harris Rabinovich. *B.S. Johns Hopkins, 1959; M.S., Maryland, 1965; M.D., 1969*
Jules M. Ranz. *M.D., New York University, 1966*
Jeffrey S. Rosecan. *B.A., Columbia, 1974; M.D., 1978*

Barbara R. Rosenfeld. *M.D., Medical College of Pennsylvania, 1965*
Lyle E. Rosnick. *B.A., Columbia, 1970; M.D., 1974*
Boris Rubinstein. (also Pediatrics) *B.A., Colegio Israelita (Mexico City), 1961; M.D., Nacional (Mexico), 1970; M.P.H., Harvard, 1978*
Barbara Sacco. *B.S.N., C. W. Post, 1976; M.A., Columbia, 1977*
J. Arturo Sanchez-Lacay. *M.D., Autonomus University of Santo Domingo, 1978*
Diana Pardew Sandberg. *B.A., Rensselaer Polytechnic Institute, 1981; M.D., Albany, 1981*
Robert Santulli. *B.A., Yale, 1969; M.D., Columbia, 1973*
M. Bruce Sarlin. *B.A., Tulane, 1953; M.D., 1957*
Pellegrino J. Sarti. *B.S., Fordham, 1970; M.D., Bologna, 1977*
Murray David Schane. *B.A., Wayne State, 1961; M.D., Stanford, 1968*
David B. Schnur. *M.D., Belgium, 1979*
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Beth June Seelig, *M.D., New York University, 1972 Lawrence Shaderowfsky. B.A., Chicago, 1956; M.D., New York Medical College, 1960*
Peter A. Shapiro. *B.A., Princeton, 1976; M.D., Columbia, 1980*
Edward M. Shelley. *B.A., Columbia, 1960; M.D., State University of New York (Downstate), 1958*
Charles Siegal. *B.A., New York University, 1954; M.D., State University of New York (Downstate), 1958*
Frieda H. Spady. *B.S., Columbia, 1963; M.D., New York Medical College, 1967*
H. David Stein. *B.A., Brandeis, 1975; M.D., Columbia, 1979*
Jerome Steiner. *B.A., Chicago, 1949; M.A., 1952; M.D., State University of New York (Downstate), 1962*
Gloria Jean Stern. *B.A. Barnard, 1961; M.D., New York University, 1976*
Laurie Ann Stevens. *B.A., Yale, 1975; M.D., Columbia, 1979*
Ellen M. Stevenson. *M.D., Columbia, 1982*
Diane L. Stone. *B.A., Pennsylvania, 1966; M.D., Columbia, 1970*
Michael L. Teitelman. *B.A., Columbia, 1966; Ph.D., Princeton, 1972; M.D., New York University, 1983*
Eleanor M. Townsend. *B.A., Sarah Lawrence, 1957; M.D., Columbia, 1961*
Brian Trappler. *M.B.,Ch.B., Witwatersrand (South Africa), 1974*
Ann R. Turkel. *B.A., Barnard, 1947; M.D., Albany, 1952*
Hector Osvaldo Varas. *M.D., Buenos Aires University, 1969*
Steven G. Wager. *B.A., Washington (St. Louis), 1975; M.D., Case Western Reserve, 1980*
Martin Weiler. *B.A., Syracuse, 1949; M.A., Columbia, 1951; M.D., Chicago, 1954*
Steven L. Weinstein. *B.A., Brooklyn, 1962; M.D., Chicago, 1966*
Agnes H. Whitaker. *B.A., Antioch, 1972; M.D. Rutgers, 1976*

Assistant Clinical Professors of Medical Psychology

Phillip Adams. *Ph.D., Georgia State, 1986*
Aryeh Anavi. *Ph.D., Boston, 1963*
Elizabeth W. Auricchio. *Ph.D., Fordham, 1972*
Mark J. Blechner. *M.S., Yale, 1975; Ph.D., 1977*
Martha Davis. *B.A., Rochester, 1963; M.S., Yeshiva, 1967; Ph.D., 1973*
Michael Fendrich. *M.S., Columbia, 1987; Ph.D., Texas, 1985*
Walter Isaac Gadlin. *Ph.D., New York University, 1968*
Raymond R. Goetz. *Ph.D., Yeshiva, 1983*
Meg S. Kaplan, *B.A., New York University, 1970; M.A., 1972; Ph.D., 1985*
Letty Pogul Munz. *Ph.D., Columbia, 1974*
Robert S. Schachter. *Ed.D., Boston, 1975*
Dianne E. Schechter. *B.A., Rutgers, 1977; M.S., 1981; Ph.D., 1987*
Susan M. Sussmann. *B.A., Cornell, 1976; Ph.D., American (Washington), 1983*
Lawrence A. Welkowitz. *B.A., Middleburg, 1980; M.A., Hawaii, 1982; Ph.D., 1985*

Assistant Clinical Professor of Pediatric Psychology

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Jane Eliot Fried. *B.A., Vassar, 1964; M.D., Columbia, 1970*

Assistant Clinical Professor of Psychology

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Assistant Clinical Professors of Psychiatric Social Work

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Miriam Gibbon. *B.A., Antioch, 1954; M.S.W., Columbia, 1957*
Betty Jeanne Kass. *B.A., Goucher, 1969; M.S., Columbia, 1973*
Bobba Jean Moody. *B.A., Hunter, 1964; M.S.W., Fordham. 1968*
Nettie Terestman. *B.A., Hunter, 1938; M.S., Columbia, 1940; D.S.W., 1963*
Jane A. Waters. *B.A., Wellesley, 1967; M.S., Simmons, 1972*

Associate Research Scientists

Samuel W. Anderson. *B.A., George Washington, 1958; Ph.D., Harvard, 1965*
Charles E. Basch. *B.S., State University of New York, 1976; M.S., 1977; Ph.D., Southern Illinois, 1982*
David P. Birkett. *M.B.,Ch.B., South Wales, 1957*
Richard L. Blumenthal. *B.A., Cornell, 1947; M.A., New School for Social Research, 1951, Ph.D., New York University, 1961*
Lirio S. Covey. *Ph.D., City University of New York, 1983*
Cynthia L. Crown. *B.A., Maryland, 1978; M.A., 1980; Ph.D., Delaware, 1984*
Richard Feldman. *Ph.D., Columbia, 1966*
Michelle S. Gersten, *B.A., Cornell, 1978; Ed.D., Harvard, 1979*
Basalingappa Hungund. *B.Sc., Kanatah (Dharwar, India), 1962; M.S., 1964; Ph.D., National Chemical Laboratory (Poona, India), 1968*
Michael D. Jasnow. *B.A., Clark, 1973; M.A., New York University, 1977; Ph.D., George Washington, 1983*
Ee-Sing Lo. *Ph.D., Shanghai Second Medical College (China), 1978*
Sahebarao Mahadik (also Biochemistry & Molecular Biophysics). *Ph.D., Poona (India), 1969*
Mary S. Mittelman. *M.S., Columbia, 1969; Dr.Ph., 1980*
John Nee. *B.S., National University of Taiwan, 1966; Ph.D., Penn State, 1973; M.P.H., Columbia, 1977*
Arthur S. Perumal. *B.S., Madras, 1958; M.S., 1963; Ph.D., Indian Institute of Science, 1969*
Graham F. Pringle. *Ph.D., New York University, 1982*
Kurt Salzinger. *Ph.D., Columbia, 1954*
Suzanne Salzinger. *Ph.D., Columbia, 1964*
Raymond F. Suckow. *B.S., Columbia, 1967; M.S., St.John's (New York), 1970; Ph.D., 1978*
David E. Wilder. *Ph.D., Columbia, 1959*

SPECIAL LECTURERS

Viola W. Bernard, M.D.
John Cederquist, M.D.
John A. Cook, M.D.
Katrina De Hirsch, B.A.
Marjorie H. Frank, M.D.
Lothar Gidro-Frank, M.D.
Murray Glusman, M.D.
William Goldfarb, M.D.
George Goldman, M.D.
Henriette R. Klein, M.D.
Lawrence C. Kolb, M.D.
Mary MacKay, M.D.
Robert S. Mumford, M.D.
Lionel Ovesey, M.D.
Bernard Pacella, M.D.
Leon Roizin, M.D.

SPECIAL LECTURERS *(continued)*

Herbert Spiegel, M.D.
Leo Srole, M.D.
Bluma Swerdloff, D.S.W.
Alberta Szalita, M.D.
Joseph Zubin, M.D.

LECTURERS

Ann H. Appelbaum, M.D.
Jacob A. Arlow, M.D.
Stuart S. Asch, M.D.
Elizabeth L. Auchincloss, M.D.
Henry Bachrach, Ph.D.
Bruce Ballard, M.D.
Jose Barchilon, M.D.
Beatrice Beebe, M.D.
Evan Bellin, M.D.
Marion S. Blank, M.D.
Alexander R. Broden, M.D.
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Assistant Professors

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Leslie Davidson (also Pediatrics) (in the Sergievsky Center). *B.A., Harvard, 1969; M.D., Columbia, 1978*
Marilie D. Gammon. *B.S., California (Berkeley), 1974; M.P.H., Washington (Seattle), 1982; Ph.D., Yale, 1989*
Richard M. Garfield (also Nursing). *B.A. Hahnemann, 1976; B.A., Beacon, 1977; M.P.H., Columbia, 1980; Dr. P.H., 1985; M.S., 1986*
Maureen C. Hatch. *B.A., Manhattanville, 1963; M.P.H., Columbia, 1979; Ph.D., 1983*
Alfred I. Neugut (also Medicine). *B.A., Columbia, 1972; M.D., Ph.D., 1977; M.P.H., 1983*
Stephen K. C. Ng (also Pediatrics) (in the Sergievsky Center). *B.S., LaSalle, 1967; M.B.,B.S., Hong Kong, 1972; M.P.H., Columbia, 1981; Dr. P.H., 1986*
Karen G. Raphael (in Psychiatry). *B.A., Hofstra, 1977; Ph.D., 1984*
Steven Shea (also Medicine). *B.A., Harvard, 1968; M.A., Yale, 1971; M.D., Columbia, 1979*
Carolyn L. Westhoff (also Obstetrics & Gynecology). *B.S., Michigan 1972; M.D., 1977; M.S., London School of Hygiene & Tropical Medicine, 1983*

Assistant Professors of Clinical Public Health

Deborah S. Hassin. *B.A., California (Los Angeles), 1972; M.S., Columbia, 1980; M. Phil., 1985; Ph.D., 1986*
Jennifer Pinto (in the Sergievsky Center). *B.A., Stanford, 1978; M.P.H., California (Berkeley), 1982; Ph.D, 1984*
Susan A. Wilt. *B.A., Bennington College, 1964; M.S., Columbia, 1978; Dr.P.H., 1985*

Assistant Clinical Professors

Linnea Capps (also Medicine). *B.S., Kansas, 1971; M.D., Missouri, 1977; M.P.H., Columbia, 1985*
Ruth Ottman (in the Sergievsky Center). *B.A., California (Berkeley), 1975; Ph.D., 1980*
Stephen Shafer (also Neurology) (in the Sergievsky Center). *B.A., Harvard, 1966; M.D., Columbia, 1970; M.P.H., 1977*
Sam R. Toussie. *B.A., Vermont, 1972; M.S., Columbia, 1976; Ph.D., 1984*

Adjunct Assistant Professors

Mary Ann Chiasson. *B.A., Bennington, 1972; M.S., New York University, 1978; M.P.H., Columbia, 1985; Dr.P.H., 1988*
Gretchen Dieck. *B.A., Smith, 1976; M. Phil., Yale, 1979; Ph.D., 1982*
Ann B. Goodman. *B.A., Radcliffe, 1953; M.A., George Washington, 1963; M.S., Columbia, 1972*
John L. Kiely (in Sergievsky Center). *B.A., Dartmouth, 1974; M.A., New School for Social Research, 1976; Ph.D., Columbia, 1984*
Paul S. May. *B.S., College of the City of New York, 1951; M.S., State University of New York (Syracuse), 1952; D.Sc., Philadelphia College of Pharmacy, 1955; M.P.H., Columbia, 1970*
Janet B. Schoenberg. *B.A., Swarthmore, 1967; M.Phil., Yale, 1970; M.P.H., 1973*

Rand L. Stoneburner. *B.S., Presbyterian (South Carolina), 1971; M.D., Tulane, 1975; M.P.H., Harvard, 1981*
Rickey Wilson. *B.A., Texas, 1968, M.S., Columbia, 1985; M.D., Texas, 1972*

LECTURERS

Gertrud S. Berkowitz, Ph.D.
Stephen M. Friedman, M.D., M.P.H.

ASSOCIATE IN PUBLIC HEALTH

Todd-Ingalls Murray, A.B.

Geriatrics and Gerontology

John E. Borne Professor of Clinical Public Health and Director of Division

Barry J. Gurland. *M.B.,Ch.B., Capetown, 1955*

Professor of Geriatric Medicine

Sidney Katz (in Medicine, Public Health, and Geriatrics & Gerontology). *B.S., Case Western Reserve, 1944; M.D., Brown, 1948*

Professor of Clinical Public Health

Ruth Bennett (in Psychiatry). *B.A., Brooklyn, 1955; Ph.D., Columbia, 1962*

Assistant Professor of Clinical Public Health

John A. Toner (in Psychiatry). *B.A., William Paterson, 1975; Ed.D., Columbia, 1976*

Associate Research Scientists

Virginia W. Barret. *A.A., Colby Sawyer, 1961; B.A., Columbia, 1964; M.Ed., 1980; Dr.P.H., 1987*
Cathy S. Berkman. *B.S., Vermont, 1973; M.S.W., Boston, 1975*
Cynthia Dozier. *B.A., State University of New York (Syracuse), 1971; M.A., New York School for Social Research, 1977; M.S., Ph.D., Massachusetts, 1981*

LECTURERS

Rita H. Neugut, Ph.D.
Shura Saul, Ed.D.
Anil K. Verma, M.B.,B.S.

Health Administration

Professor and Director of Division

Lawrence Brown. *B.A., Harvard, 1969; Ph.D., 1973*

Professors

Lowell E. Bellin. *B.S., Yale, 1948; M.D., State University of New York (Downstate), 1951; M.P.H., Harvard, 1964*
Lucie S. Kelly (also Nursing). *B.S.N., Pittsburgh, 1947; M.Litt., 1957; Ph.D., 1965*
Samuel Wolfe. *M.D., Toronto, 1950; M.P.H., Columbia, 1960; Dr.P.H., 1961*

Adjunct Professors

Howard L. Bailit. D.*M.D., Tufts, 1962; M.S., Harvard, 1964; Ph.D., 1967*
Noreen M. Clark. *B.S., Utah, 1965; M.A., Columbia, 1972; Ph.D., 1976*
Joseph V. Terenzio. *B.A., Yale, 1939; J.D., Fordham, 1947; M.S., Columbia, 1954*

Clinical Professor

Arthur Manoharan. *M.B.,B.S., Madras (India), 1951; Dr.P.H., Columbia, 1960*

Associate Professor

Bernard Challenor. *B.A., Hunter, 1957; M.D., State University of New York (Downstate), 1961; M.P.H., Harvard, 1963*

Associate Professor of Clinical Public Health

Stephen N. Rosenberg. *B.A., Cornell, 1963; M.D., Albert Einstein, 1967; M.P.H., Harvard, 1969*

Adjunct Associate Professors

Harold Fructhbaum (History and Philosophy of Public Health). *B.C.E., New York University, 1955; M.S., Rensselaer Polytechnic Institute, 1956; Ph.D. Harvard, 1964*
Lloyd F. Novick. *B.A., Colgate, 1961; M.D., New York University, 1965; M.P.H., Yale, 1971*

Assistant Professor

David A. Albert (also Dental & Oral Surgery). *B.A., New York University, 1980; D.D.S., 1984; M.P.H., Columbia, 1987*

Assistant Professor of Clinical Public Health

Sheila A. Gorman. *B.S.N., Niagara, 1959; M.P.H., Columbia, 1972; M. Phil., 1981; Ph.D., 1982*

Assistant Clinical Professors

Joseph Corcoran. *B.S., St. Peter's, 1964; M.B.A., Pace, 1965*
David Lawrence Ginsberg. *B. Arch., Cornell, 1955*
Margaret L. Haynes. *B.S., Fairleigh Dickinson, 1968; M.P.H., Columbia, 1975; Ed.D., 1984*
Daniel W. Morrissey. *M.A., Pontifical Faculty of St. Thomas Aquinas, 1958; M.A., Aquinas Institute of Theology, 1962; S.T.Lr., 1963*
Michael P. O'Connor. *B.A., St. John's, 1972; M.P.A., City University of New York, 1977*
Richard S. Thomas. *B. Arch., Pratt Institute, 1968*
Richard P. Zucker. *B.E., Cooper Union, 1970; M.P.H., Columbia, 1981*

Adjunct Assistant Professors

Theodore Allison. *B.S., Columbia, 1953; M.A., Yale, 1954*
Raymond R. Arons. *B.S., Fairleigh Dickinson, 1962; M.P.H., Columbia, 1976; Dr.P.H., 1983*
Donald L. Ashkenase. *B.S., Brooklyn, 1965; M.B.A., Wagner, 1974*
John Baer. *B.A., Oberlin, 1959; M.S., Columbia, 1961; D.P.A., New York University, 1967*
Tryfon J. Beazoglou. *B.A., Athens, 1963; M.A., Chicago, 1972; Ph.D., Northwestern, 1980*
Robert Boyar. *B. Arch., Rensselaer Polytechnic Institute, 1957*
Willine Carr. *B.A., North Carolina (Greensboro), 1967; M.P.H., North Carolina (Chapel Hill), 1970; M.P.H., Columbia, 1982*
Annette Choolfaian. *B.S., Bridgeport, 1964; M.P.A., New York University, 1972*

Anita Stiles Curran. *B.A., Connecticut, 1951; M.D., New York Medical College, 1955; M.P.H., Columbia, 1974*
William E. Gold. *B.A., State University of New York (Stony Brook), 1970; M.S.S., Hebrew (Israel), 1972; Ph.D., Minnesota, 1982*
Gail Marie Gordon. *B.S., University of Minnesota, 1968; M.P.H., Johns Hopkins, 1973; Dr.P.H., Columbia, 1979*
Nancy Graham. *M.P.H., Columbia, 1972; Ph.D., 1976*
Elane M. Gutterman. *B.A., State University of New York (Albany), 1972; M.S.W., Yeshiva, 1974; Ph.D., Columbia, 1983*
William H. Hermann. *B.S., Missouri, 1951; M.S., Yale, 1953*
Sanja Johansen. *B.A., California (Berkeley), 1958; M.A., 1960; M.P.A., Alaska, 1978; M.Phil., Columbia, 1981; Ph.D., 1982*
Henry R. Karpe. B.*B.A., College of the City of New York, 1952; M.S., Wisconsin, 1972*
John M. Kuder. *B.A., Drake, 1971; M.A., Arkansas, 1972; Ph.D., Michigan, 1979*
Jeffrey S. Markowitz. *B.A., Queens (New York), 1972; M.P.H., Columbia, 1980; Dr.P.H., 1988*
James O'Brien. *B.A., Fordham, 1966; M.A., 1968; Ph.D., 1973*
Marcia L. Pinkett-Heller. *B.A., Howard, 1963; M.P.H., Michigan, 1970*
Arnold E. Rosenblum (Health Administration). *B.A., Brooklyn, 1947; J.D., New York University, 1950; M.S., Columbia, 1964*
Eleanore Rothenberg. *B.A., Brooklyn, 1955; M.P.A., New York University, 1969; Ph.D., 1975*
Martin Schnall. *B.A., Yeshiva, 1955; M.S., Columbia, 1957; M.B.A., New York University, 1974; Ph.D., American International, 1978*
Barry R. Snow. *B.A., Yeshiva, 1975; M. Phil., City University of New York, 1980; Ph.D., Columbia, 1981*
James R. Tallon, Jr. *B.A., State University of New York (Syracuse), 1963; M.A., Boston, 1967*
Michael L. Ziegler. *B.A., State University of New York (Albany), 1972; J.D., State University of New York (Buffalo), 1976*

SENIOR LECTURER

Melanie C. Dreher, Ph.D.

LECTURERS

Kenneth Adamec, M.S.
Frederick D. Alley, M.S.
Allan C. Anderson, M.S.
Barbara Bengen, M.B.A.
Jay M. Bolnick, M.P.H.
Patricia A. Chambers, M.B.A.
Martin Cherkasky, M.D.
Thomas J. Craig, M.P.H.
Victor G. Demarco, B.S.
Ronald B. Dreskin, M.B.A.
John J. Farmer, C.P.A.
Charmaine M. Fitzig, Dr.P.H.
Raymond Fleishman, M.S.
Nicholas Freudenberg, Dr.P.H.
Gary Gambuti, M.P.H.
Doris Goldberg, M.P.H.
Margaret T. Grossi, M.D.
David Harris, M.D.
Cathy Idema, M.P.H.
Florence Kavaler, M.D.
Stuart M. Lane, Ph.D.
David E. Leach, III, J.D.
Jacob J. Lindenthal, Ph.D.

LECTURERS *(continued)*

Regina Loewenstein, M.A.
Daniel R. Longo, Sc.D.
Charles H. Meyer, M.S.
Anthony C. Mustalish, M.D.
Alton W. Noyes, M.S.
Donna O'Hare, M.D.
James M. Pierce, M.P.H.
Peter M. Raith, M.A.
Peter Rogatz, M.D.
Alan H. Rosenblut, M.B.A.
Rachel Rotkovitch, M.S.
Alvin Strelnick, M.D.
John W. Wohltman, Jr., M.A.

INSTRUCTORS

Neal A. Demby, D.M.D., M.P.H.
Ruth Haase, M.A.
Lin H. Mo, M.P.H., M.B.A.
Joseph B. Stamm, M.P.H.
Ilona W. Surick, M.P.H.

ASSOCIATES

Weizhong Gao, B.A.
Dena J. Seiden, B.A.
Marc S. Wolfert, M.P.H.
Zhijun Zhang, B.S.
Ilise A. Zimmerman, M.P.H.

Nutrition

Professor and Director of Division

DeWitt S. Goodman (Tilden-Weger-Bieler Professor of Preventative Medicine) (in the Institute of Human Nutrition). *A.B., Harvard, 1951; M.D., 1955*

Professor

Sami A. Hashim. *B.A., Beirut, 1950; M.S., 1952; M.D., State University of New York (Buffalo), 1955*

Assistant Clinical Professor

S. Jaime Rozovski. *B.S., Chile, 1969; M.S., Columbia, 1971; Ph.D., 1977*

LECTURERS

Robert Karp, M.D.
Joseph R. Vasselli, Ph.D.

Population and Family Health

Associate Professor and Director of Division

James McCarthy. *A.B., Holy Cross, 1971; M.P.H., Indiana, 1976; Ph.D., Princeton, 1977*

Professors of Clinical Public Health

Nicholas Cunningham (also Pediatrics). *B.A., Harvard, 1950; M.D., Johns Hopkins, 1955; Dr.P.H., 1977*
Stephen L. Isaacs. *B.A., Brown, 1961; J.D., Columbia, 1965*
John A. Ross. *B.A., Ottawa, 1956; M.A., Yale, 1957; Ph.D., 1961*
Giorgio R. Solimano (in the Institute of Human Nutrition). *B.S., Chile, 1952; M.D., 1960*
Joe D. Wray. *B.A., Stanford, 1947; M.D., 1952; M.P.H., North Carolina, 1967*

Adjunct Professors

Joy G. Dryfoos. *B.A., Antioch, 1951; M.A., Sarah Lawrence, 1966*
Susan G. Philliber. *B.A., Florida State, 1965; M.S., 1966; Ph.D., 1968*

Clinical Professor

Martin E. Gorosh. *B.A., Brooklyn, 1959; M.P.H., Johns Hopkins, 1969; Dr.P.H., 1973*

Associate Professors

Andrew R. Davidson. *B.A., Sterling; M.A., Illinois, 1971; Ph.D., 1974*
Debra Kalmus. *B.A., State University of New York (Buffalo), 1973; M.S.W., Bryn Mawr, 1976; M.A., Michigan, 1977; Ph.D., 1980*

Associate Professor of Clinical Public Health

Pearila Namerow. *B.A., Pennsylvania, 1970; M. Phil., Columbia, 1974; Ph.D., 1976*

Associate Clinical Professors

Rosemary Barber-Madden. *B.A., Jersey City State, 1968; M.S., Hunter, 1977; Ed.D., Temple, 1980*
Audrey Tittle Cross. *B.S., California (Berkeley), 1967; M.P.H., 1969; J.D., California (Hasting), 1978; Ph.D., California (Berkeley), 1985*
Judith E. Jones. *B.A., Hunter, 1956; M.S., Columbia, 1983*
William A. Van Wie. *B.A., Wooster, 1961; B.D., Pittsburgh Seminary, 1964; M.P.H., North Carolina, 1968; Dr.P.H., 1974*

Assistant Professors

William S. Blaner (also in the Institute of Human Nutrition). *B.S., Maryland, 1972; M.S., Tennessee, 1975; Ph.D., 1979*
Sally A. Lederman. *B.S., Brooklyn, 1957; M.S., Columbia, 1976; M.Phil, 1979; Ph.D., 1980*
Virginia A. Rauh. *B.A., Middlebury, 1969; M.S.W. Smith, 1971; Sc.D., Harvard, 1982*

Assistant Professors of Clinical Public Health

Renee J. Holt. *B.S., Tennessee, 1980; J.D., Rutgers, 1985; M.P.H., Columbia, 1986*
Ann M. Kimball. *B.S., Stanford, 1972; M.P.H., Washington, 1981*
Norman L. Weatherby. *B.A., North Texas State, 1974; M.A., 1978; Ph.D., Florida, 1983*

Assistant Clinical Professors

Bruce Armstrong. *B.A., Marist, 1971; M.S.W., New York University, 1976*
Ismail T. Diene. *M.D., Dakar (Africa), 1981; M.P.H., Columbia, 1987*
Angela J. Kamara. *R.N., Forester Hill College of Nursing (Scotland), 1969; C.N.M., Withington Maternity Hospital (England), 1971*
Patrick G. Kelly. *B.S., Wheaton, 1962; M.D., California (San Francisco), 1966; M.P.H., Johns Hopkins, 1974; D.S.W., Columbia, 1984*
Mark S. Rapoport. *M.D., Boston, 1970; M.P.H., Harvard, 1973*
Linda A. Randolph. *B.S., Howard, 1962; M.D., 1967; M.P.H., California (Berkeley),1971*
Maria J. Wawer. *B.S., New Brunswick (Fredericton),1974; M.D., McMaster, 1977; M.H.,Sc., Toronto, 1980*

Adjunct Assistant Professors

Wendy Chavkin. *B.A., Michigan (Ann Arbor), 1973; M.D., State University of New York (Stony Brook), 1978; M.P.H., Columbia, 1980*
Catherine Cowell. *B.S., Hampton Institute, 1945; M.S., Connecticut, 1947*
Michele G. Shedlin. *B.S., Columbia, 1968; M.A., 1975; M. Phil., Ph.D., 1982*

Associate Research Scientists

Linda F. Cushman. *Ph.D., New York University, 1986*
Donald J. Lauro. *B.A., California (Berkeley), 1966; M.A., 1971; Ph.D., Australian National (Canberra), 1979*
Deborah P. Maine. *B.A., Barnard, 1972; M.P.H., 1982*
Regina McNamara. *B.A., St. Elizabeth, 1950; M.S.W., Fordham, 1964; M.P.H., Columbia, 1978; Dr.P.H., 1985*
Stanley Musgrave. *B.A., Haverford, 1977; M.D., Rochester, 1981; M.P.H., North Carolina, 1985*
Michael S. Piraino. *B.A., Allegheny, 1974; J.D., Cornell, 1977*
Eugene M. Weiss. *B.A., California (Berkeley), 1963; M.P.H., 1965; Ph.D., Michigan, 1972*

LECTURERS

Elizabeth Bernardik, M.P.H.
Dennis Carlson, M.D.
M. Barbara Cicatelli, M.A.
Rebecca J. Cook, M.P.A., J.D.
Morton Lebow, M.A.
Jill Markowitz, M.P.H.
Jean Pakter, M.D.

Sociomedical Sciences

Professor and Director of Division

Eugene Litwak (also Sociology). *B.A., Wayne State, 1948; Ph.D., Columbia, 1958*

Professors

Denise B. Kandel (in Psychiatry). *B.A., Bryn Mawr, 1952; M.A., Columbia, 1953; Ph.D., 1960*

Seymour Spilerman (Levi Professor of Social Sciences). *B.A., Pomona, 1959; M.A., Brandeis, 1961; Ph.D., John Hopkins, 1968*

Clinical Professors

Geoffrey Gibson. *B.A., Nuttingham, 1959; M.A., Ohio, 1967; Ph.D., 1968*

Joseph Marbach. *B.A., Drew, 1965; D.D.S., Pennsylvania, 1960*

Senior Research Scientist

Ann F. Brunswick. *B.A., Hunter, 1946; M.A., Clark, 1947; Ph.D., Columbia, 1976*

Associate Professors

Ronald Bayer. *B.A., State University of New York (Binghamton), 1964; M.A., Chicago, 1967; Ph.D., 1976*

John L. Colombotos. *B.A., Columbia, 1949; M.A., 1952; Ph.D., Michigan, 1961*

Associate Professor of Clinical Public Health

John P. Allegrante. *B.S., State University of New York (Cortland), 1974; B.S., Illinois, 1976; Ph.D. 1979*

Associate Clinical Professor of Social Sciences

Carol Caton. *B.S., Columbia, 1962; M.S.N., Yale, 1965; Ph.D., Michigan, 1961*

Research Scientist

Mata K. Nikias. *D.D.S., Athens, 1953; M.P.H., Columbia, 1960; Ph.D., 1976*

Assistant Professors

Mary Clare Lennon. *B.A., Fordham, 1970; M.A., Columbia, 1975; Ph.D., 1980; M.S., 1985*

John L. Martin. *B.A., California (Berkeley), 1974; Ph.D., City University of New York, 1982; M.P.H., Columbia, 1984*

Peter A. Messeri. *B.S., Massachusetts Institute of Technology, 1972; M.A., Columbia, 1976; Ph.D., 1985*

Assistant Professors of Clinical Public Health

Donald H. Gemson. *B.A., Hamilton (New York), 1974; M.D., New York Medical College, 1978; M.P.H. Columbia, 1985*
Gerry Hendrickson. *B.S., Maryland, 1965; Ph.D., Johns Hopkins, 1970*
Carol Lewis. *B.A., Radcliffe, 1955; M.A.T., Johns Hopkins, 1962; M.S.W., Maryland, 1966; M.P.H., Johns Hopkins 1976; Sc.D., 1983*

Assistant Clinical Professors

James A. Lipton. *B.S., College of the City of New York, 1967; D.D.S., Columbia, 1971; Ph.D., 1980*
Michael S. Wilkes. *M.D., Connecticut, 1985*

Adjunct Assistant Professors

Judith Barr. *B.A., Goucher, 1957; Sc.D., Johns Hopkins, 1976*
Margery Braren. *M.A., Columbia, 1963; Ph.D., 1971*
Ann Partridge Dill. *B.A., Delaware, 1970; M.A., Columbia, 1975; M.Phil, 1980; Ph.D., 1986*
Sally Guttmacher. *B.S., Wisconsin, 1963; Ph.D., Columbia, 1976*
Lawrence Krasnoff. *B.A., College of the City of New York, 1969; Ph.D., 1979*
Betty W. Levin. *B.A., Barnard, 1969; M.A., Columbia, 1977; M.Phil., 1980; Ph.D., 1985*
Debra Murphy. *B.S., New Mexico, 1975; M.S., Texas Christian, 1981; Ph.D., 1983*
Matthew A. Rosen. *B.A., Columbia, 1967; M.A., 1969; M. Phil., 1975; Ph.D., 1979*

Associate Research Scientists

Laura Lee Dean. *Ed.M., Columbia, 1980; M.A., 1978; B.A., City College of New York, 1974*
Stanley Fisher. *B.S., College of the City of New York, 1949; M.S.W., Columbia, 1955; Ph.D., City University of New York, 1977.*
Carla S. Lewis. *B.A., Fordham, 1979; M.A., Hunter, 1984; Ph.D., City University of New York, 1988*
Carole S. Vance. *B.A., Hunter, 1968; Ph.D., Columbia, 1970*
C. Naomi Velez. *B.A., Puerto Rico, 1970; M.A., 1973; M. Phil., Columbia, 1978; Ph.D., 1981*

Adjunct Associate Research Scientist

Paul E. Robinson. *B.A., Ramapo College of New Jersey, 1977; M.A., New York University, 1980; Ph.D., 1984*

Senior Research Associate

Paul W. Haberman. *B.S., Pennsylvania, 1948; M.B.A., New York University, 1961*

Research Associate

Athilia Siegmann. *B.S., Queens (New York), 1944; M.A., Columbia, 1947*

SPECIAL LECTURER

Jack Elinson, Ph.D.

LECTURERS

Raymond Fink, Ph.D.
Kim Hopper, Ph.D.
Corinne Kirchner, M. Phil.
Victoria H. Raveis, Ph.D.
Lucille Rosenbluth, M.P.A.

INSTRUCTORS

Charlotte Ellis, Ph.D.
Rochelle Kern, Ph.D., M.P.H.

Tropical Medicine

Associate Professor and Acting Director of Division

Philip A. D'Alesandro (Parasitology) (also Microbiology). *B.S., Rutgers, 1952; M.S., 1954; Ph.D., Chicago, 1958.*

Professors

Dickson D. Despommier (Parasitology) (also Microbiology). *B.S., Fairleigh Dickinson, 1962; M.S., Columbia, 1964; Ph.D., Notre Dame, 1967.*
Michael Katz (Reuben S. Carpientier Professor of Pediatrics). *B.A., Pennsylvania, 1949; M.D., State University of New York (Downstate), 1956; M.S., Columbia, 1963.*

Adjunct Associate Professor

John D. Frame. *B.A., Wheaton, 1938; M.D., Northwestern, 1943.*

Assistant Professors

Mary Gwo-Shu Lee. *B.S., National University of Taiwan, 1978; M.S., 1981; Ph.D., New York University, 1985*
Deborah A. Russell. *B.A., University of Texas, 1972; M.S., Texas A & M, 1977; D.V.M., 1980; Ph.D., 1983*

Assistant Clinical Professor

Martin G. Blechman. *B.S., George Washington, 1949; M.S., Columbia, 1953; M.D., Jefferson, 1957*

Radiation Oncology

Acting Chairman

Chu Huai Chang. *B.S., Shanghai (China), 1941; M.D., 1944*

At Presbyterian Hospital

Professor

Eric J. Hall (also Radiology) (Physics). *D. Phil., Oxford, 1962; D.Sc., 1978*

Professor of Clinical Pathology

Carmia Borek. *M.S., George Washington, 1961; Ph.D., Weitzmann Institute (Israel), 1967*

Adjunct Professor

Victor P. Bond (Radiation Biophysics). *B.A., California (Berkeley), 1943; M.D., California (San Francisco), 1945; Ph.D., California (Berkeley), 1952*

Associate Professors

Howard Ira Amols. *B.S., Cooper Union, 1970; M.S., Brown, 1973; Ph.D., 1974*
Charles R. Geard (Radiation Biophysics). *B.A.S., Melbourne, 1960; M.Sc., Tasmania, 1969; Ph.D., Australian National, 1973*
Marco Zaider (also Public Health). *M.S., Bucharest, 1968; Ph.D., Tel Aviv, 1976*

Associate Professor of Radiation Biology

Basil V. Worgul (in Ophthalmology). *B.S., Miami, 1969; Ph.D., Vermont, 1974*

Associate Clinical Professor

Karen S. Fountain. *B.A., Northern State (South Dakota), 1968; M.D., Maryland, 1972*

Assistant Professors

Myles Barry Astor. *B.A., Columbia, 1976; M.A., 1981; M. Phil., 1982*
David Jonathan Brenner. *B.A., Oxford, 1974; M.Sc., London, 1976; Ph.D., Surrey, 1979*
Greg A. Freyer. *B.S., Cincinnati, 1976; Ph.D., Missouri, 1981*
Mary K. Hayes. *B.A., Manhattanville, 1975; M.S., Boston, 1980; M.D., Ross, 1984*
Tom K. Hei. *B.S., Wisconsin, 1958; Ph.D., New York University, 1974*
Steven R. Isaacson. *B.S., Pennsylvania State, 1969; M.D., Jefferson, 1973*
Howard B. Lieberman. *B.S., Brooklyn, 1977; Ph.D., Rutgers, 1982*
Richard Cavin Miller. *B.A., Iowa, 1969; M.S., 1972; Ph.D., 1976*
Jaime S. Rubin. *Ph.D., Toronto, 1984*
Peter B. Schiff. *B.A., Brandeis, 1975; M.S., Albert Einstein, 1978; Ph.D., 1980; M.D., 1984*
Laurie Roizin Towle. *B.S., Marymount, 1967; M.S., New York University, 1971*

Assistant Professors of Clinical Radiation Oncology

Mary K. Martel. *B.S., Illinois Benedictine College, 1978; M.A., Clark, 1980; Ph.D., 1982*
Cheng Shie Wuu. *B.S., National Tsing Hua University (Taiwan), 1979; M.S., 1982; Ph.D., Kansas, 1985*

Associate Research Scientists

Paul E. Goldhagen (Radiation Biophysics). *B.S., Maryland, 1967; Ph.D., Princeton, 1973*
Paul J. Kliauga (Radiation Biophysics). *B.S., Chicago, 1958; Ph.D., New York University, 1974*
Gerhard Randers-Pehrson. *B.S., Rensselaer Polytechnic Institute, 1966; M.D., Maryland, 1979*

SPECIAL LECTURERS

Chu Huai Chang, M.D.
Harald Rossi, M.D.

Radiology

Professor and Acting Chairman

Philip O. Alderson. *B.A., Washington (St. Louis), 1966; M.D., 1970*

At Presbyterian Hospital

Professors

Walter E. Berdon. *B.A., Syracuse, 1950; M.D.,1955*
Kent Ellis. *M.D., Yale, 1950*
Frieda Feldman. *B.A., New York University, 1953; M.D., 1957*
Eric J. Hall (Physics) (also Radiation Oncology). *Ph.D., Johns Hopkins, 1942*
Sadek Hilal. *M.D., Cairo, 1955*
Jeffrey H. Newhouse. *B.A., Princeton, 1963; M.D., Harvard, 1967*

Adjunct Professors

Lawrence A. Shepp. *B.S., Polytechnic Institute of Brooklyn, 1958; M.A., Princeton, 1960; Ph.D., 1961*
Charles Springer. *B.S., St. Louis, 1962; M.S., Ohio, 1964; Ph.D., 1967*

Professors of Clinical Radiology

Jack Farman. *M.B.,Ch.B., University of Cape Town (South Africa), 1948; M.D., 1963*
Rashid Fawwaz. *M.D., American University of Beirut, 1960; Ph.D., California (Berkeley), 1968*
Donald L. King. *B.A., Stanford, 1956; M.D., Columbia, 1960*
Eric C. Martin. *B.A., Oxford, 1963; M.A., 1967; M.D., St. Thomas (London), 1967*
Ralph Schlaeger. *B.S., Wisconsin, 1942; M.D., 1945*

Associate Professor

Edward S. Amis, Jr. *B.S., Arkansas, 1963; M.D., Northwestern, 1967*

Associate Professors of Clinical Radiology

Sara Abramson. *B.A., Sarah Lawrence, 1967; M.D., Mt. Sinai, 1971*
Thane Asch. *B.A., Columbia, 1951; M.D., Cornell, 1955*
John H. McC. Austin. *B.A., Harvard, 1961; M.D., Yale, 1965*
Lawrence M. Boxt. *B.A., California (Berkeley), 1970; M.D., New York Medical College, 1974*
Peter D. Esser. *B.A., Brown, 1961; M.S., Adelphi, 1964; Ph.D., 1971*
Monique C. Katz. *B.A., Vassar, 1959; M.D., Albert Einstein, 1963*
Karen Laffey. *B.A., Bryn Mawr, 1968; M. Phil., Yale, 1971; Ph.D., 1974; M.D., 1977*
Edward L. Nickoloff (Radiation Physics). *B.S., Carnegie Institute of Technology, 1965; M.S., New Hampshire, 1968; Sc.D., Johns Hopkins, 1977*
David W. Seldin. *B.S., Massachusetts Institute of Technology, 1968; M.S,, Colorado, 1970; M.D., New York University, 1975*
Alan J. Silver. *B.A., Harvard, 1967; M.D., Rochester, 1973*
Thedore Sheng-Tao Wang. *B.S., National Mukden Medical College (China), 1952; M.S., Nebraska, 1958; Ph.D., Maryland, 1964*

Associate Professor of Clinical Neuropsychology

Isak Prohovnik (also in Psychiatry and in Neurology). *M.S., Lund (Sweden), 1980; Ph.D., 1981*

Associate Clinical Professors

Harry Agress, Jr., *B.A., Tufts, 1968; M.D., 1972*
Kaaren Nyhus Bergquist. *B.S., Wisconsin, 1962; M.D., Case Western Reserve, 1968*
Sundara R. Ganti. *M.B.,B.S., Guntur Medical College (India), 1967*
Herman W. Lubetsky. *B.S., College of the City of New York, 1948; M.D., Geneva, 1953*
Kevin L. Macken. *M.D., National (Ireland), 1947*
Robert Silbey. *B.A., Columbia, 1952; M.D., 1955*
Rolando Dario Singson. *B.S., Santo Tomas (Philippines), 1965; M.D., 1970*

Assistant Professors

Jacqueline Bello. *B.A., Dartmouth, 1976; M.D., Columbia, 1980*
Ronda Bixon. *B.S., Tufts, 1976; M.D., 1981*
Charles H. Bush. *B.S., Polytechnical Institute of New York, 1977; M.D., Mt. Sinai, 1982*
T. Linda Chi. *B.A., Johns Hopkins, 1976; M.D., Baylor, 1980*
Dewitte T. Cross, III. *B.A., Vanderbilt, 1975; M.D., Alabama, 1980*
George I. Getrajdman. *B.A., Rutgers, 1976; M.D., John Hopkins, 1980*

Robin L. Greenspan. *B.A., Franklin & Marshall, 1977; M.D., Pennsylvania, 1981*
Robert M. Jaffe. *B.A., Queens (New York), 1974; M.D., Tufts, 1978*
Glyn Johnson. *B.A., Cambridge, 1977; M.S., Aberdeen, 1978; Ph.D., 1984*
Jose Katz (also Medicine). *B.S., Illinois, 1963; M.S., 1964; Ph.D., 1967; M.D., Berlin, 1980*
Andrew M. Keller (also Medicine). *B.A., Ithaca, 1975; M.D., Ohio State, 1979*
Alexander G. Khandji. *B.S., St. Francis, 1975; M.D., State University of New York (Downstate), 1980*
Howard M. Levy. *B.A., Rochester, 1977; M.D., Temple, 1982*
Christopher C. Ng. *B.A., Winston Salem, 1980; M.D., North Carolina, 1984*
Benjamin M. Romney. *M.D., Columbia, 1977*
Joel M. Rosen. *B.S., Brooklyn, 1971; M.D., Cornell, 1975; M.S., Pennsylvania, 1977*
Carrie B. Ruzal-Shapiro. *B.A., Princeton, 1978; M.D., Columbia, 1982*
Linda M. Sanders. *M.D., Pennsylvania, 1982*
Ronald B. Staron. *B.S., Villanova, 1977; M.D., College of Medicine and Dentistry of New Jersey, 1982*

Assistant Professors of Clinical Radiology

Agnes Boxhill. *B.S., City College of New York, 1974; M.D., Columbia, 1979*
Terry M. Button. *B.S., State University of New York (Cortland), 1975; M.S., North Texas State, 1978*
In Ki Mun. *B.A., Pomona, 1975; M.S., Cornell, 1978; Ph.D., 1980*
Ellen F. Silverstein. *B.A., Brandeis, 1962; M.A., Columbia, 1963; M.D., State University of New York (Downstate), 1969*

Assistant Clinical Professors

Gregory Marc Carsen. *B.A., Oberlin, 1965; M.D., State University of New York (Downstate), 1969*
Harvey L. Hecht. *B.A.. Amherst, 1958; M.D., Albert Einstein, 1962*

Associate Research Scientist

Chang-Hyun Oh. *B.S., Seoul National University, 1979; M.S., Korea Advanced Institute of Science and Technology, 1982; Ph.D., 1985*

SPECIAL LECTURERS

David H. Baker, M.D.
William B. Seaman, M.D.

ASSOCIATES IN CLINICAL RADIOLOGY

Edwin Cabassa, B.S.
Ajoy K. Dutta, M.S.
Wendy Woehr, M.S.

INSTRUCTOR IN CLINICAL RADIOLOGY

Joseph K. Rogers, M.D.

At Mary Imogene Bassett Hospital

Adjunct Assistant Professor

Stephen W. Nagy. *Ph.D., Connecticut, 1959*

Assistant Clinical Professors

Lawrence Barnowsky. *B.A., Hofstra, 1972; M.S., Rutgers, 1974; M.D., State University of New York (Albany), 1978*

Vittal B. Chanamolu. *M.D., Kakatiya Medical College (India), 1972*
Rajendrakumar Dalal. *M.B.,B S., D.V.M. Medical School, (India), 1969*
Harry R. Hartmann. *M.D., Yale, 1959*
Katherine Lloyd. *B.A., Radcliffe, 1970; M.D., Rochester, 1975*
David L. Sommerville. *B.A., Washington & Jefferson, 1964; M.D, Pennsylvania, 1968*
Peter Wright. *B.A., Albion (Michigan), 1971; M.D., Michigan, 1975*

At Harlem Hospital Center

Professor of Clinical Radiology

Jan Jakob Smulewicz. *M.D., Erlangen (Germany), 1951*

Associate Clinical Professor

Theodore H. Stent. *B.A., Talledega, 1944; M.D., Meharry, 1948*

Assistant Professors

Roberta C. Locko. *B.A., Manhattanville, 1972; M.D., George Washington, 1976*
Virgiliu G. Necula. *M.D., Faculty of Medicine (Romania), 1949*

Assistant Professors of Clinical Radiology

Jeanne E. Armstrong. *B.A., Mt. Holyoke, 1949; M.D., Columbia, 1952*
Laurencia B. Regalado. *M.D., St. Tomas (Manila), 1957*

Assistant Clinical Professors

Norma H. Aquino. *M.D., Santo Tomas (Philippines), 1964*
Christopher A. Johnson. *B.A., Howard, 1943; M.D., 1947*
Candido P. Quinones. *M.D., Santo Domingo, 1966*
Yuthana Samroengraja. *M.D., Chulongkorn Hospital Medical School, 1965*
Allan J. Schwartz. *B.A., City College of New York, 1967; M.S., Harvard, 1968; M.D., Columbia, 1974*
Abdulhamid R. Vazir. *M.D., Bombay, 1942*

INSTRUCTORS IN CLINICAL RADIOLOGY

Nabil Arslan, M.D.
Serge Balmir, M.D.
Gilles M. Hendrick, M.D.

At Morristown Memorial Hospital

Clinical Professor

Gilbert S. Melnick. *B.A., Cornell 1951; M.D., State University of New York (Downstate), 1954*

Assistant Professor of Clinical Radiology

David L. Bloom. *B.A., Harvard. 1951; M.D., Tufts, 1955*

Assistant Clinical Professor

Lawrence C. Swayne. *B.S., Ursinus (Pennsylvania), 1975; M.D., Rutgers, 1979*

At St. Luke's-Roosevelt Hospital

Professor

Ronald C. Ablow. *B.A., Harvard, 1954; M.D., Rochester, 1962*

Professor of Clinical Radiology

Guy D. Potter. *B.S., Chicago, 1957; M.D., 1960*

Clinical Professors

Kuo-York Chynn. *B.S., National Tung-Chi University (Shanghai), 1945; M.D., 1949; M.S., St. Louis. 1954*
Virginia Kanick. *B.A., Barnard, 1947; M.D., Columbia, 1951*

Associate Professor

Souheil Saddekni. *M.D., Damascus (Syria), 1972*

Associate Professors of Clinical Radiology

Richard Palmer Gold. *B.A., Tufts, 1965; M.D., 1969*
Lucy E. Hann. *B.A., Saratoga (New York), 1968; M.S., Dartmouth, 1971; M.D., Harvard, 1973*
Chester J. Kay. *B.A., Michigan, 1956; M.D., State University of New York (Downstate), 1960*

Associate Clinical Professors

Meyer Alpert. *B.S., College of the City of New York, 1942; M.D., Middlesex, 1945*
Jeanne W. Baer. *B.S., Connecticut, 1960; M.D., Columbia, 1964*
John T. Hsu. *M.D., National University of Taiwan, 1957*
Efthimios C. Spyropoulos. *M.D., Athens, 1948*
Bernard Suster. *B.S., State University of New York (Brooklyn), 1964; M.D., State University of New York (Downstate), 1968*

Assistant Professors

Karen Teresa Brown. *M.D., Boston, 1979*
Terry S. Desser. *B.A., Princeton, 1979; M.D., Columbia, 1984*
Jon H. Edwards. *B.S., Texas, 1967; M.D., Tulane, 1971*
Susan Hilton. *M.D., Medical College of Pennsylvania, 1975*
Madhuri Kirpekar. *B.A., New York University, 1974; M.D., State University of New York (Downstate), 1978*
Suzanne J. Smith. *B.A., Carleton, 1966; M.D., Medical College of Pennsylvania, 1971*
Jerrold B. Teitcher. *B.S., Brooklyn, 1976; M.D., State University of New York (Downstate), 1980*

Assistant Professors of Clinical Radiology

Benjamin Bashist. *B.S., Brooklyn, 1972; M.D., Albert Einstein, 1975*
Andrew J. DeRogatis. *M.D., Rutgers, 1975*
Carol L. Hilfer. *B.A., Barnard, 1967; M.D., Albert Einstein, 1971*
Thomas Lowinger. *B.S., Brooklyn, 1970; M.A., Columbia, 1972; Ph.D., State University of New York (Downstate), 1981*
Anita Gross Moallem. *B.S., Brooklyn, 1960; M.D., Albert Einstein, 1964*
Richard Michael Schaffer. *M.D., State University of New York (Downstate), 1976*
Alvaro Vallejo. *M.D., Del Valle (Colombia), 1967*

Assistant Clinical Professors

Michael Abiri. *M.D., Tehran, 1972*
David S. Marsden. *Ph.D., Jefferson, 1968*
Theodora Serban. *B.S., Lyceum Regina Maria (Bucharest), 1947; M.D., Medical School (Bucharest), 1953*

SPECIAL LECTURER

Leonard M. Liegner

Rehabilitation Medicine

Simon Baruch Professor and Chairman

John A. Downey., *M.D., Manitoba, 1954; D. Phil., Christ Church (Oxford), 1962*

At Presbyterian Hospital

Professors of Clinical Rehabilitation Medicine

Stanley J. Myers (A. David Gurewitsch Professor). *B.A., New York University, 1957; M.D., State University of New York (Downstate), 1961*

Associate Professor

Lucien J. Cote (also Neurology). *B.A., Vermont, 1951; M.D., 1954*

Associate Clinical Professor

Sanders W. Davis. *M.D., Texas, 1965*

Assistant Professor

Fredi Kronenberg (Irving Assistant Professor). *B.S., Cornell, 1972; Ph.D., Stanford, 1979*

Assistant Professor of Pharmacology

Daniel Eugene Lemons. *B.A., Goshen, 1974; M.S., Portland, 1978; M.Phil., Columbia, 1982; Ph.D., 1986*

Assistant Professors of Clinical Rehabilitation Medicine

Jose A. Alonso. *B.A., Columbia, 1979; M.D., 1983*
Anne Breuer. *B.S., Rensselaer Polytechnic Institute, 1973; M.D., State University of New York (Albany), 1978*
Anthony J. Pisciotta. *B.A., Hofstra, 1971; M.D., Rome, 1980*

Assistant Clinical Professors

Antonio Cocchiarella. *M.D., Bari (Italy), 1953*
Francis J. Foca. *B.S., Fordham, 1957; M.D., Bologna (Italy), 1966*
Carolina O. McCagg. *B.A., Barnard, 1962; M.D., Yale, 1966*
Jonathan Moldover. *B.A., Trinity (Connecticut), 1970; M.D., Columbia, 1974*
Damyanti G. Moorjani (also Pediatrics). *B.S., Bombay, 1953; M.D., Grant (Bombay), 1957*
Anthony V. Porcelli. *B.A., Columbia, 1951; M.D., Boston, 1955*
Naomi L. Turner. *B.A., San Francisco Xavier (Bolivia), 1948; M.D., 1956*

Associate Research Scientist

Martha E. Heath (also Pharmacology). *B.S., California (Hayward), 1973; M.A., 1975; Ph.D., Cambridge (Great Britain), 1979*

SPECIAL LECTURER

Robert C. Darling, M.D.

ASSOCIATES IN CLINICAL REHABILITATION MEDICINE

Alfred Hess, D.O.
John Joseph Kraus, M.D.
Howard Liss, M.D.
Robert P. Narcessian, B.S.
Robert Stone, M.S.

INSTRUCTORS IN CLINICAL REHABILITATION MEDICINE

Joanne P. Borg-Stein, M.D.
Michael Canale, M.D.
Victor J. Cisek, M.D.
Daniel C. Fechtner, M.D.
Glenn F. Hutnick, A.A.
Donald Liss, M.D.
Robert J. Mitchell, M.D.
Peter D. Natale, D.P.M.
Areta Podhorodecki, M.D.
John T. Raftis, M.D.
Patricia A. Richards, M.D.
Richard S. Schlesinger, M.D.

At Harlem Hospital

Professors of Clinical Rehabilitation Medicine

Albert Anderson. *B.A., Columbia, 1948; M.D., Harvard, 1952*
Herbert L. Thornhill. *B.S., Pittsburgh, 1951; M.D., Howard, 1955*

Clinical Professor

Yasoma B. Challenor. *B.A., Hunter, 1959; M.D., State University of New York (Downstate), 1963*

Associate Clinical Professor

Wanda Brodzka. *M.D., Academy of Medicine (Warsaw), 1954*

Assistant Professor of Clinical Physical Therapy

Theodore F. Childs. *B.S., Shaw, 1944; M.A., Columbia, 1957; Ed.D., 1975*

Assistant Clinical Professor

Serge Fenelon (also Pediatrics). *M.D., Lausanne, 1973*

SPECIAL LECTURER

Ivan T. Donev, M.D.

ASSOCIATES IN CLINICAL REHABILITATION MEDICINE

Thomas Abraham, M.D.
Iluminado C. Nebab, M.B.B.S.

INSTRUCTORS IN CLINICAL REHABILITATION MEDICINE

Armand Demosthenes, M.D.
Sosamma B. George, M.D.

INSTRUCTOR IN CLINICAL OCCUPATIONAL THERAPY

Sandhya E. Zarapkar, M.A.

INSTRUCTOR IN CLINICAL PHYSICAL THERAPY

Joseph A. Malloy, M.D.

At Helen Hayes Hospital

Assistant Professor of Clinical Rehabilitation Medicine

Arun Bhattacharyya. *B.S., Bangabasi (Calcutta), 1950; M.D., Nilratan Sirca Medical College (Calcutta), 1955*

ASSOCIATES IN CLINICAL REHABILITATION MEDICINE

Lata D. Bhansali, M.D.
Mary Guarracini, M.D.

At Overlook Hospital

INSTRUCTOR IN CLINICAL REHABILITATION MEDICINE

David J. Jacobs, M.D.

At St. Luke's-Roosevelt Hospital Center

Associate Clinical Professors

Patrick J. Fazzari. *B.S., Manhattan, 1963; M.D., State University of New York (Albany), 1967*
Stanley Wainapel. *B.A., Boston, 1970; M.D., 1970*

Assistant Professor of Clinical Rehabilitation Medicine

Jeffrey L. Cole. *B.S., Queens, 1973; M.D., Guadalajara, 1977*

Assistant Clinical Professor

Young Sei Kwon. *M.D., Catholic (Korea), 1960*

INSTRUCTOR IN CLINICAL PHYSICAL THERAPY

Cheryl King, M.S.

Occupational Therapy

Associate Professor and Director of Program

Barbara Neuhaus. *B.A., Keuka, 1950; O.T.R., Columbia, 1952; M.A., 1960; Ed.D., 1980*

Associate Clinical Professor

Gordon G. Williamson. *B.A., Emory, 1968; M.S., Columbia, 1970; Ph.D., 1978*

Assistant Professors of Clinical Occupational Therapy

Simme Cynkin. *B.S., Pennsylvania, 1965; M.S., 1970*
Janet Falk-Kessler. *B.S., Pennsylvania, 1974; M.A., Columbia, 1978*
Adele C. Germain. *B.A., Connecticut, 1969; M.S., O.T.R., Columbia, 1970*
Patricia A. Miller. *M.A., Columbia, 1978*

ASSOCIATES IN CLINICAL OCCUPATIONAL THERAPY

Margaret Ann Brown, M.A.
Anne Mazur-Robinson, M.A.

INSTRUCTORS IN CLINICAL OCCUPATIONAL THERAPY

Gerard J. DeMauro, M.S.
Ruth Dickey, M.A.
Karyn D. Epstein, B.S.
Elaine D. Fondiller, M.S.
Susan J. Gelb, B.S.
Karen Kayton, M.A.
Carlotta B. Kip, M.S.
Elaine M. McCreanor, M.S.
Pamela H. Miller, M.A.
Elise A. Salantrie, M.A.
Chaye L. Warburg, M.S.
Lisa L. Zoldan B.S.

Physical Therapy

Assistant Professor and Acting Director of Program

Bonnie Teschendorf. *B.S., New York University, 1965; M.S., New School for Social Research, 1981*

Associate Professor of Clinical Physical Therapy

Bernadette Hecox. *B.S., Columbia, 1968; M.A., 1973*

Assistant Professor

Cynthia M. Chiarello. *B.S., State University of New York (Fredonia), 1977; M.S., Duke, 1979; Ph.D., New York University, 1987*

Assistant Professors of Clinical Physical Therapy

Mary Joan Day. *B.S., St. Louis, 1961; M.S., Pennsylvania, 1972*
Thomas. J. Schmitz. *B.S., State University of New York (Buffalo), 1972; M.S., Boston, 1974*

Assistant Clinical Professor

James E. Gordon. *B.A., State University of New York (Downstate), 1974; M.A., Columbia, 1981; Ed.M., 1983; Ed.D., 1985*

SPECIAL LECTURER

Mary E. Callahan, M.A.

ASSOCIATES IN CLINICAL PHYSICAL THERAPY

Theodore Corbitt, M.A.
Howard J. Phillips, Jr., M.S.
Paul Ribera, B.S.

INSTRUCTORS IN CLINICAL PHYSICAL THERAPY

Susan T. Alexander, B.S.
Margaret Beyda, B.S.
Lori Buck, B.S.
Rita Cheng, B.S.
Daniel E. Ciolek, M.S.
Ann Edgar, B.S.
Linda E. Fieback, M.A.
Carl Gargliulo, M.A.
Rita Hamburgh, M.A.
Gail King, M.S.
Kelly McGinnis, M.S.
Ann P. Michaels, M.S.
Theresa M. Morrone, B.A.
Terrence O'Halloran, M.S.
Lindi Oberon, M.A.
Debbie A. Organ, M.S.
Edward M. Pisarski, M.S.
Georgia Reidel, B.S.
Gay Rosenberg, M.A.
Amy C. Savetsky, M.A.
Claire Sweatt, B.S.
Christine W. Wade, M.A.
Douglas Westphal, M.S.
Denise Zakula, M.S

Surgery

Valentine Mott Professor; Johnson and Johnson Professor and Chairman

Keith Reemtsma. *B.S., Idaho State, 1945; M.D., Pennsylvania, 1949*

At Presbyterian Hospital

Professors

R. Peter Altman (Rudolph N. Schullinger Professor of Pediatric Surgery) (also Pediatrics). *B.A., Colgate, 1955; M.S., Rochester, 1958, M.D., New York Medical College, 1961*
Frank Gump. *B.A., Harvard, 1951; M.D. New York University, 1955*
Mark A. Hardy. *B.A., Columbia, 1958; M.D., Albert Einstein, 1962*
Norman E. Hugo (Plastic). *B.A., Williams, 1955; M.D., Cornell, 1959*
Thomas C. King. (Jose M. Ferrer Professor) *B.A, Utah, 1950; M.D., 1954; M.A., Missouri, 1963*
Paul Lo Gerfo. *B.S., Rensselaer Polytechnic Institute, 1961; M.S., 1963; M.D., State University of New York (Upstate) 1967*
James R. Malm. *B.A., Princeton, 1949; M.D., Columbia, 1956*
John B. Price, Jr. *M.A., Texas, 1948; M.D., Johns Hopkins, 1950*
Henry M. Spotnitz (George H. Humphreys, II Professor). *B.A., Harvard, 1962; M.D, Columbia, 1966*

Professors of Clinical Surgery

Frederick O. Bowman, Jr. *B.A., North Carolina, 1948; M.D., Pennsylvania, 1952*
Kenneth A. Forde. *B.S., City College of New York, 1954; M.D., Columbia, 1959*
Alfred M. Markowitz. *B.A., New York University, 1948; M.D., Washington (St.Louis), 1952*
John N. Schullinger. *B.A., Princeton, 1951; M.D., Columbia, 1955*

Professor of Clinical Pathology

Nicole Suciu-Foca. *B.S., Bucharest, 1959; M.S., 1960; Ph.D., 1965*

Clinical Professor

Bashir Ahmad Zikria. *B.S., George Washington, 1954; M.D., Johns Hopkins, 1958*

Senior Research Scientist

David V. Habif. *B.S., Columbia, 1936; M.D., 1939*

Associate Professors

Roman Nowygrod. *B.A., Harvard, 1966; M.D., Columbia, 1970*
Eric A. Rose. *B.A., Columbia, 1971; M.D., 1975*
Charles J. H. Stolar. *B.A., Washington (St. Louis), 1970; M.D., Georgetown, 1974*

Adjunct Associate Professor of Pathology

Ah-Kau Ng. *B.A., National Chung Hsing University (Taiwan), 1969; M.D., State University of New York (Plattsburgh), 1972; Ph.D., Temple, 1975*

Associate Professor of Clinical Dental & Oral Surgery

Steven M. Roser (also in Otolaryngology). *B.A., Middlebury, 1964; D.M.D., Harvard, 1968; M.D., 1972*

Associate Professors of Clinical Surgery

Joseph A. Buda. *B.A., Columbia, 1951; M.D., Cornell, 1955*
Alfred Jaretzki, III. *B.A., Harvard, 1941; M.D., 1944*
Francis C. Symonds, Jr. *B.A., Princeton, 1947; M.D., Columbia, 1951*
George J. Todd. *B.S., Iona, 1970; M.D., Pennsylvania State, 1974*
Collin J. Weber. *B.A., Princeton, 1967, M.D., Columbia, 1971*

Associate Clinical Professor

Sven Kister. *B.A., Dartmouth, 1955; M.D., Harvard, 1958*

Assistant Professors

Alan Benvenisty. *B.S., Union, 1974; M.D., Columbia, 1978*
David Tak Wai Chiu. *B.A., Missouri, 1969; M.D., Columbia, 1973*
Alison Estabrook. *B.A., Barnard, 1974; M.D., New York University, 1978*
Peter L. Geller. *B.A., Harvard, 1971; M.D., Columbia, 1980*
Thomas J. Kirby. *B.S., Western Ontario, 1974; M.D., 1978*
Robert E. Michler. *B.A., Harvard, 1978; M.D., Dartmouth, 1981*
Craig Richey Smith. *B.A., Williams, 1970; M.D., Case Western Reserve, 1977*
Paul Matthew Starker. *M.A., Harvard, 1976; M.D., Columbia, 1980*
Michael Treat. *B.A., Pennsylvania, 1971; M.D., Jefferson, 1976*

Assistant Clinical Professors

Paul H. Gerst. *B.A., Columbia, 1948; M.D., 1952*
Leif O. Holgersen. *B.A., Taylor (Indiana), 1960; M.D., College of Medicine and Dentistry of New Jersey, 1965*
Peter S. Liebert. *M.D., Harvard, 1962*
Jeffrey L. Zitsman. *B.A., Johns Hopkins, 1972; M.D., Tufts, 1976*

Associate Research Scientists

Shanta M. Modak. *Ph.D., Haffkine Institute (Bombay), 1969*
Shrishailam S. Yemul. *B.S.C., Shivaji (Khapur, India), 1965; M.S.C., 1968; Ph.D., National Chemical Laboratory (Poona, India), 1974*

SPECIAL LECTURERS

Harold G. Barker, M.D.
Carl R. Feind, M.D.
Arthur B. Voorhees, M.D.
Philip Wiedel, M.D.

LECTURERS

Alan D. Heymann, M.D.
Ronald N. Allstein, M.D.

INSTRUCTORS IN CLINICAL SURGERY

Spencer E. Amory, M.D.
Harold M. Bruck, M.D.
David W. Johnstone, M.D.
Mark David Sherman, M.D.
Charles A. Slanetz, M.D.
James S. Todd, M.D.

At Mary Imogene Bassett Hospital

Professor of Clinical Surgery

David A. Blumenstock. *B.A., Union (Schenectady), 1949; M.D., Cornell, 1953*

Clinical Professors

Michael S. Gold. *B.S., Miami, 1961; M.D., 1965*
John E. Olson. *B.A., Kansas, 1953; M.D., 1956*

Associate Clinical Professor

Rodman D. Carter (in Urology). *B.A., Harvard, 1950; M.D., Columbia, 1954*

Assistant Professors of Clinical Surgery

James Bordley, IV. *B.A., Yale, 1965; M.D., Columbia, 1970*
Patrick Allen Dietz. *B.A., Holy Cross, 1966; B.M. Sc., Dartmouth, 1968; M.D., Harvard, 1970*
Roger W. MacMillan, II. *B.S., Trinity, 1961; M.D., Columbia, 1965*

Assistant Clinical Professor

Webster J. Stayman. *B.S., St. Lawrence, 1966; M.D., Jefferson, 1970*

At Harlem Hospital

Professors of Clinical Surgery

Barbara Barlow. *B.A., Vassar, 1960; M.A., Columbia, 1963; Ph.D., 1964; M.D. Yeshiva, 1967*
Harold P. Freeman. *B.A., Catholic, 1954; M.D., Howard, 1958*

Associate Professor of Clinical Surgery

Colin W. McCord. *B.A., Williams, 1949; M.D., Columbia, 1953*

Associate Clinical Professors

David M. Carberry. *Ph.D., Providence, 1947; M.D., Jefferson, 1951*
Ferdinand A. Ofodile. *B.S., Northwestern, 1964; M.D., 1968*
John W. Parker, Jr. *B.A., Fisk, 1942; M.D., Meharry, 1945*
Mohamad H. Parsa. *B.S., Tehren, 1957; M.D., 1963*

Assistant Professors of Clinical Surgery

Arthur Cooper (in the Institute of Human Nutrition). *B.A., Harvard, 1971; M.D., Pennsylvania, 1975*
Ganepola A. Ganepola. *B.S., Kyoto, 1966; M.D., 1967*

Assistant Professor of Clinical Orthopedic Surgery

Shearwood J. McClelland. *B.A., Princeton, 1969; M.D., Columbia, 1974*

Assistant Clinical Professors

Rajunder P. Gandhi. *M.B.,B.S., Institute of Medicine (Mandalay), 1966*
Ruben Oropeza. *B.S., Mexico, 1948; M.D., 1955*
Carlton E. Patrick. *M.D., University of the Saar (Hamburg, Germany), 1957*

Assistant Clinical Professor of Neurological Surgery

Robert W. Shick. *B.A., Columbia, 1948; M.D., New York Medical College, 1953*

Assistant Clinical Professor of Otolaryngology

Ransford C. Newman, *M.B.B.S.*

SPECIAL LECTURER

Robert F. Morton, M.D.

ASSOCIATES IN CLINICAL SURGERY

Matthew D. Branche, M.D.
Urbano K. Guarin, M.D.
Malcolm Moley, M.D.
Pierre G. Van Bockstaele, M.D.

INSTRUCTORS IN CLINICAL SURGERY

Albert K. Adu, M.D.
Monqidh M. Al-Sawwaf, M.D.
Elizabeth A. Almeyda, M.D.
Gerard S. Audige, M.D.
Deodatt V. Bendre, M.D.
Egel Francois, M.D.
Edoardo Giuliani, M.D.
Robert N. Holtzman, M.D.
Avtar S. Josen, M.D.
Barnett Miller, M.D.
Sitaram Pillarisetty, M.D.

INSTRUCTORS *(continued)*

Max Yergan, M.D.
Scott J. Zevon, M.D.

INSTRUCTOR IN CLINICAL NEUROLOGICAL SURGERY

George V. DiGiacinto, M.D.

INSTRUCTORS IN CLINICAL ORTHOPEDIC SURGERY

Jacquelin Emmanuel, M.D.
Caleb Medley, M.D.

INSTRUCTORS IN CLINICAL OTOLARYNGOLOGY

Ellsworth L. Frye, M.D.
Cecil D. Grimes, M.D.

INSTRUCTOR IN CLINICAL PEDIATRIC SURGERY

Maria Niemirska, M.D.

INSTRUCTOR IN CLINICAL UROLOGY

Saeid Shamsian, M.D.

At Helen Hayes Hospital

INSTRUCTOR IN CLINICAL ORTHOPEDIC SURGERY

William L. King Jr., M.D.

At Morristown Memorial Hospital

Associate Clinical Professors

John J. Castronuovo. *B.A., Columbia, 1970; M.D., New York Medical College, 1974*
Ames L. Filippone. *B.A., Cornell, 1950; M.D., 1953*
Warren Widmann. *M.D., Yale, 1961*

Assistant Clinical Professors

John Alkhas. *M.D., Tehran, 1959*
Rolf Bessin. *M.D., George Washington, 1964*
John Edoga. *B.A., Columbia, 1967; M.D., 1971*
E. Bruce Hallett. *M.D., Rochester, 1946*
Edward R. McLean. *M.D., Columbia, 1973*
Ghassem Niknejad. *M.D., Tehran, 1961*
Eugene Watkins. *M.D., Harvard, 1943*

INSTRUCTORS IN CLINICAL SURGERY

Carey Dolgin, M.D.
Hughes Dougan, M.D.
R. Alan Henseler, M.D.

At Overlook Hospital

Clinical Professor

Richard W. Brenner. *B.A., Princeton, 1954; M.D., Columbia, 1958*

Associate Clinical Professors

David Befeler. *B.A., Columbia, 1955; M.D., 1959*
Bruce J. Brener. *B.A., Yale, 1962; M.D., Harvard, 1966*
Robert Specht. *B.A., Princeton, 1944; M.D., Columbia, 1946*
Charles J. Wittmann, Jr. *B.A., Princeton, 1958; M.D., Pennsylvania, 1962*

Assistant Clinical Professors

John H. Cooper. *B.S., Lawrence, 1947; M.B.A., Chicago, 1949; M.D., 1954*
Douglas M. Costabile. *B.A., Muhlenberg, 1946; M.D., Geneva, 1951*
John Joseph Hudock. *B.S., Northwestern, 1944; M.D., 1948*
Jerrold S. Lozner. *B.A., Columbia, 1967; M.D., Louisville, 1971*
Daniel L. Moore. *M.D., Johns Hopkins, 1958*

ASSOCIATES IN CLINICAL SURGERY

Joseph V. Bocchino, M.D.
Walter Groff, M.D.
Robert E. Knapp, M.D.
Thomas Logio, M.D.
Charles A. Loguda, M.D.
Saverio J. Panzarino, M.D.
Morton Perkoff, M.D.
Jerome Spivack, M.D.

At St. Luke's - Roosevelt Hospital Center

Professors of Clinical Surgery

Richard C. Eaton. *B.S., Franklin and Marshall, 1951; M.D., Pennsylvania, 1955*
Richard B. Stark. *B.A., Stanford, 1936; M.D., Cornell, 1941*
Walter Wichern. *B.S., Mount Union (Ohio), 1942; M.D., Harvard, 1945*

Clinical Professor

W. Graham Knox. *B.A., Columbia, 1939; M.D., 1942*

Senior Research Scientist

George A. Hashim (also Microbiology). *Ph.D., Columbia, 1967*

Associate Professor of Clinical Surgery

Bruce P. Mindich. *B.A., State University of New York (Syracuse), 1969; M.D., State University of New York (Downstate), 1972*

Associate Clinical Professors

John E. Hutchinson. *B.S., Moorhouse, 1953; M.D., Meharry, 1957*
Robert E. McCabe. *B.A., Williams, 1948; M.D., Cornell, 1953*
Robert E. Miller. *B.A., New York University, 1953; M.D., State University of New York (Downstate), 1957*
Howard R. Nay. *B.A., Virginia MIlitary Institute, 1952; M.D., Columbia, 1956*
James B. Rodgers. *B.A., Virginia, 1944; M.D., 1948*
Edward G. Stanley-Brown. *M.D., Pennsylvania, 1948*

Assistant Professor of Clinical Surgery

William G. Ramey. *B.A., Virginia, 1970; M.D., 1973*

Assistant Clinical Professors

Peter A. Bossart. *B.A., Muhlenberg, 1947; M.D., Cornell, 1951*
Thomas Dailey. *B.A., Princeton, 1957; M.D., Cornell, 1961*
Clayton R. DeHaan. *B.S., Florida, 1949; M.D., Columbia, 1953*
Paul D. Harris. *B.A., Princeton, 1954; M.D., Columbia, 1958*
James A. MacDonald. *B.A., Princeton, 1948; M.D., Columbia, 1950*
Haroutune A. Mekhjian. *B.S., American University of Beirut, 1961; M.D., 1965*
Robert J. Mulcare. *B.A., Princeton, 1957; M.D., Columbia, 1961*
James H. Terry, Jr. *B.S., Arizona, 1949; M.D., Columbia, 1953*
Chin Bor Yeoh. *B.A., Yale, 1953; M.D., Harvard, 1957*

INSTRUCTORS IN CLINICAL SURGERY

Arnold H. Belgraier, M.D.
Charles R. Blair, M.D.
Peter B. Cinelli, M.D.
Hiram Sedgwick Cody, III, M.D.
Clarence A. Dunn, Jr., M.D.
Peter B. Fodor, M.D.
Steven Z. Glickel, M.D.
B. Smith Hopkins, M.D.
Richard H. Karpinksi, M.D.
John J. Keyser, M.D.
Farid J. Khoury, M.D.
Fred M. Kimmelstiel, M.D.
Ronald M. Linder, M.D.
Dianne R. Lorieo, M.D
Stephan G. Lynn, M.D.
Richard A. Marks, M.D.
Donna Maria Mendes, M.D.
Eric D. Moore, M.D.
Alexander J. Swistel, M.D.
Paul I. Tomljanovich, M.D.
Frank A. Veteran, M.D.
Hiroshi Washio, M.D.

INSTRUCTOR IN CLINICAL ORTHOPEDIC SURGERY

George J. Zambetti, M.D

Urology

John K. Lattimer Professor and Chairman

Carl A. Olsson. *B.A., Bowdoin, 1959; M.D., Boston, 1963*

At Presbyterian Hospital

Professor of Anatomy & Cell Biology

Anthony Bellve (in the Center for Reproductive Sciences). *B.Ag.Sci, Massey (New Zealand), 1964; M.Ag.Sci., 1967; Ph.D., North Carolina State, 1970*

Associate Professor

Jerry G. Blaivas. *B.A., Tufts, 1964; M.D., 1968*

Associate Professors of Clinical Urology

Terry W. Hensle. *B.S., Pennsylvania, 1964; M.D., Cornell, 1968*
Peter J. Puchner. *B.A., Carleton, 1958; M.D., Columbia, 1962*

Associate Clinical Professors

Stanley B. Braham. *B.A., Columbia, 1944; M.D., 1947*
Frank W. Longo. *B.S., Maryland, 1951; M.D., 1955*
Myron S. Roberts. *B.A., Syracuse, 1950; M.D., State University of New York (Upstate), 1954*

Research Scientist

Paul B. Fisher. *B.A., Hunter, 1968; Lehman, 1971; Ph.D., Waksman Institute, 1974*

Assistant Professors

Mitchell Clark Benson. *B.S., Union, 1973; M.D., Columbia, 1977*
Kevin A. Burbige. *B.A., Siena, 1972; M.D., Wayne State, 1976*
Ihor Steven Sawczuk. *B.A., New York University, 1974; M.D., Medical College of Pennsylvania, 1979*

Assistant Professor of Biochemistry & Molecular Biophysics

Robert S. Cohen (in the Center for Reproductive Sciences). *B.S., Delaware, 1978; Ph.D., Southern California, 1982*

Assistant Professor of Urologic Biochemistry

Ralph Buttyan. *B.S., Pittsburgh, 1974; M.S., Chicago, 1977; Ph.D., 1980*

Assistant Professor of Clinical Urology

John D. Birkhoff. *B.A., Harvard, 1964; M.D., Columbia, 1969*

Assistant Clinical Professors

Peter N. De Sanctis. *B.A., New York University, 1952; M.D., Boston, 1962*
John P. Grant. *B.A., Amherst, 1954; M.D., Columbia, 1962*
Michael H. Wechsler. *B.S., Trinity, 1961; M.D., St. Louis, 1965*

ASSOCIATES IN CLINICAL UROLOGY

Leonard J. Rudin, M.D.
Charles E. Umhey, Jr., M.D.
James A. Umhey, M.D.

INSTRUCTORS

Michael B. Chancellor, M.D.
Steven Kaplan, M.D.

INSTRUCTORS IN CLINICAL UROLOGY

Luis M. Abreu, M.D.
Richard Fadil, M.D.
Roberto C. Granato, M.D.
Erol O. Gursel, M.D.
Richard Kroll, M.D.

ASSISTANTS

Cornel I. Dumitriu, M.D.
Lenard E. Jacobson, M.D.

At Mary Imogene Bassett Hospital

Associate Clinical Professor

Rodman D. Carter. *B.A., Harvard, 1950; M.D., Columbia, 1956*

Assistant Professor of Clinical Urology

Bruce R. MacDonald. *B.A., Washington and Lee, 1964; M.D., Medical College of Virginia, 1968*

At Harlem Hospital Center

ASSOCIATE IN CLINICAL UROLOGY

Urbano K. Guarin, M.D.

INSTRUCTORS IN CLINICAL UROLOGY

Kwabena Ansong, M.D.
Saeid Shamsian, M.D.

At Overlook Hospital

Assistant Professor of Clinical Urology

Joseph Spence Ritter. *M.D., Seton Hall, 1963*

Assistant Clinical Professor

Robert R. White. *B.A., Amherst, 1949; M.D., Rochester, 1954*

ASSOCIATES IN CLINICAL UROLOGY

Kenneth L. Day, M.D.
Pascal A. Pironti, M.D.
Morey Wosnitzer, M.D.

At St. Luke's-Roosevelt Hospital Center

Professor of Clinical Urology

Nicholas A. Romas. *B.A., Colgate, 1958; M.D., Columbia, 1962*

Associate Clinical Professor

Joseph N. Ward. *M.B.,Ch.B., University College (Dublin), 1949*

Assistant Professor of Clinical Urology

Franklin Charles Lowe. *B.A., Princeton, 1975; M.P.H., M.D, Columbia, 1979*

Assistant Clinical Professors

William J. Nelson. *B.A., Williams, 1945; M.D., New York Medical College, 1946*
Robert D. Wickham. *B.A., Drew, 1947; M.D., State University of New York (Albany), 1952*

Associate Research Scientist

Daniel Joseph Hryb. *Ph.D., City University of New York, 1972*

ASSOCIATES IN CLINICAL UROLOGY

William Reid Pitts, Jr., M.D.
Arumbi P. Subramaniam, M.D.
Walter Ivey Delph, M.D.

INSTRUCTORS IN CLINICAL UROLOGY

David G. Kaufman, M.D.
Waleed G. Maloof, M.D.
Jose V. Silva, M.D.
Alexander Sotiropoulos, M.D.
James W. Vastola, M.D.
Damir Velcek, M.D.

Official Regulations

Reservation of University Rights

This bulletin is intended for the guidance of persons applying for or considering application for admission to Columbia University and for the guidance of Columbia students and faculty. The bulletin sets forth in general the manner in which the University intends to proceed with respect to the matters set forth herein, but the University reserves the right to depart without notice from the terms of this bulletin. This bulletin is not intended to be and should not be regarded as a contract between the University and any student or other person.

University Regulations

According to University regulations, each person whose registration has been completed will be considered a student of the University during the term for which he or she is registered unless the student's connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at any time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which the student is first registered.

The privileges of the University are not available to any student until he or she has completed registration. Since, under the University statutes, payment of fees is part of registration, no student's registration is complete until the fees have been paid. A student who is not officially registered for a University course may not attend the course unless granted auditing privileges. No student may register after the stated period without obtaining the written consent of the appropriate dean or director.

Attendance

Students are held accountable for absences incurred owing to late enrollment.

Religious Holidays

It is the policy of the University to respect its members' observance of their major religious holidays. Officers of administration and of instruction responsible for the scheduling of required academic activities or essential services are expected to avoid conflict with such holidays as much as possible. Such activities include examinations, registration, and various deadlines that are a part of the academic calendar.

Where scheduling conflicts prove unavoidable, no student will be penalized because of absence for religious reasons, and alternative means will be sought for satisfying the academic requirements involved. If a suitable arrangement cannot be worked out between the student and the instructor involved, students and instructors should consult the appropriate dean or director. If an additional appeal is needed, it may be taken to the Provost.

Academic Discipline

The continuance of each student on the rolls of the University, the receipt of academic credits, graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University.

Statement on Student Conduct

The Schools and Programs of the Health Sciences Campus of Columbia University expect that in and out of the classroom, on and off the campus, each student will act in an honest and considerate manner at all times, and will respect the rights of others. While every subtlety of

proper behavior cannot be detailed here, the Columbia policy is that harassment of others because of their race, sex, religion, or sexual orientation is unacceptable behavior and will be dealt with very severely. Every student at Columbia is required to live up to these standards so that we can be confident that all will benefit fully from the diversity to be found here.

Rules of University Conduct

The Rules of University Conduct (Chapter XLI of the Statutes of the University) provide special disciplinary rules applicable to demonstrations, rallies, picketing, and the circulation of petitions. These rules are designed to protect the rights of free expression through peaceful demonstration while at the same time ensuring the proper functioning of the University and the protection of the rights of those who may be affected by such demonstrations.

The Rules of University Conduct are University wide and supersede all other rules of any school or division. Minor violations of the Rules of Conduct are referred to the normal disciplinary procedures of each school or division ("Dean's discipline"). A student who is charged with a serious violation of the Rules has the option of choosing Dean's discipline or a more formal hearing procedure provided in the Rules.

All University faculty, students, and staff are responsible for compliance with the Rules of University Conduct. Copies of the full text are available at the Office of the University Senate, 406 Low Memorial Library, at the Office of Student Information Services, 208 Philosophy.

Statement of Nondiscriminatory Policies

The University is required by certain Federal statutes and administrative regulations to publish the following statements: Consistent with the requirements of Title IX of the Education Amendments of 1972, as amended, and Part 86 of 45 C.F.R., the University does not discriminate on the basis of sex in the conduct or operation of its educational programs or activities (including employment therein and admission thereto). Inquiries concerning the application of Title IX and Part 86 of 45 C.F.R. may be referred to Rosalind S. Fink, Director of the Office of Equal Opportunity and Affirmative Action (305 Low Library, New York, NY 10027, telephone 854-5511), or to the Director, Office of Civil Rights (Region II), 26 Federal Plaza, New York, NY 10007.

Columbia University admits students of any race, color, national and ethnic origin to all the rights, privileges, programs, and activities generally accorded or made available to students at the University. It does not discriminate on the basis of race, color, national and ethnic origin in administration of its educational policies, admissions policies, scholarship and loan programs, and athletic and other University-administered programs.

Consistent with the requirements of Section 504 of the Rehabilitation Act of 1973, as amended, and Part 84 of 45 C.F.R., the University does not discriminate on the basis of handicap in admission or access to, or employment in, its programs and activities. Section 503 of the Rehabilitation Act of 1973 requires affirmative action to employ and advance in employment qualified handicapped workers.

The University in addition desires to call attention to other laws and regulations that protect employees, students, and applicants.

Title VI of the Civil Rights Act of 1964, as amended, prohibits discrimination on the basis of race, color, or national origin in programs or activities receiving Federal financial assistance. Title VII of the Civil Rights Act of 1984, prohibits employment discrimination because of race, color, religion, sex, or national origin. Executive Order 11246, as amended, prohibits discrimination in employment because of race, color, religion, sex, or national origin and requires affirmative action to ensure equality of opportunity in all aspects of employment. In addition, New York Human Rights Law, Article 15, Executive Law Section 296 prohibits discrimination in employment because of marital status.

The Equal Pay Act of 1963 prohibits discrimination on the basis of sex in rates of pay. The Age Discrimination Act of 1967, as amended, prohibits discrimination in employment on the basis of age.

The Columbia University Senate on December 1, 1978, passed a resolution announcing its general educational policy on discrimination which reaffirms the University's commitment to nondiscriminatory policies in the above mentioned categories, as well as its policy not to discriminate on the basis of sexual orientation.

Section 402 of the Vietnam Era Veterans' Readjustment Assistance Act of 1974, as amended, prohibits job discrimination and requires affirmative action to employ and advance in employment qualified special disabled veterans and veterans of the Vietnam era.

All employees, students, and applicants are protected from coercion, intimidation, interference or discrimination for filing a complaint or assisting in an investigation under any of the foregoing policies and laws.

The University's Office of Equal Opportunity and Affirmative Action has also been designated to coordinate the University's compliance activities under each of the programs referred to above. Any employee who believes that he or she has been denied opportunity should contact this Office, which will investigate complaints and counsel employees on questions relating to equal opportunity and affirmative action.

Discrimination Grievance Procedure

The University's Discrimination Grievance Procedure is available to enrolled students who feel that they have been the victims of sexual harassment or discrimination on the basis of race, religion, national or ethnic origin, sex, sexual orientation, marital status, age, handicap, or Vietnam era or qualified special or disabled veteran status. A copy of the Procedure is available in the Office of Equal Opportunity and Affirmative Action, 305 Low Library (854-5511).

A complaint under this Procedure is initiated through completion of a Discrimination Complaint Form, also available in the Equal Opportunity Office. Staff in that office will assist in completing the form and are also available for confidential counseling and informal investigation of discrimination claims.

Protection Against Sexual Harassment

Policy Statement on Sexual Harassment

Federal Law (Title VII of the Civil Rights Act of 1964) provides that it shall be an unlawful discriminatory practice for any employer, because of the sex of any person, to discharge without just cause, to refuse to hire, or otherwise to discriminate against that person with respect to any matter directly or indirectly related to employment. Harassment of any employees on the basis of sex violates this federal law.

To help clarify what is unlawful sexual harassment, the Federal Equal Employment Opportunity Commission (EEOC) has issued Guidelines on the subject. While the EEOC Guidelines apply only to faculty and other employees, the University prohibits sexual harassment of any member of the Columbia community, whether such harassment is aimed at students, faculty, or other employees, and violators will be subject to disciplinary action. Unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature will constitute sexual harassment when:

1. submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment;
2. submission to or rejection of such conduct by an individual is used as the basis for academic or employment decisions affecting that individual; or,
3. such conduct has the purpose or effect of unreasonably interfering with an individual's academic or work performance or creating an intimidating, hostile, or offensive academic or working environment.

Any person who believes that he or she is being sexually harassed should seek a resolution of the problem through discussion with the person directly concerned. If this does not resolve the matter, or if there is a reluctance to deal directly with the person involved, the problem should then be brought to the attention of a member of the University Panel on Sexual Harassment. A list of current panelists appears on pp. 167–168. Advice may also be sought from the Office of Equal Employment Opportunity and Affirmative Action (305 Low Memorial Library; 854-5511). If these steps have not resolved the problem, the applicable University Grievance Procedure that is available if no other University grievance procedure is specifically applicable. No one at the University may retaliate in any way against a person who makes a claim of sexual harassment.

Charge of the University Panel on Sexual Harassment

The Columbia Panel on Sexual Harassment is composed of trusted, accessible, and sympathetic members of the University community who act as mediators. Their goal is the protection and counseling of any member of the University who is made to feel personally pressured or uncomfortable because of the behavior of another University member who is in a position of power. Members of the Panel provide a safe, impartial, nonadversarial setting in which the problem can be considered or solved, through confidential counseling and, when requested, mediation between the complainant and the alleged harasser. The Panel thus provides guidance and protection for the accused as well, identifying false or mistaken accusations, misunderstandings, or unconscious behavior. Panel members finally become a link through which the University can take account of, and take appropriate action against those on campus who are behaving illegally. The Panel on Sexual Harassment is thus a timely, protective, and compassionate arm of the University, one which not only sensitizes and educates the University community, but also demonstrates that University's commitment to fair treatment of all its members.

Sexual Harassment Complaint Procedures

A. Going to a Panelist

1. A complainant comes to a Panel member with a complaint, to report an incident, or to seek advice.
2. The Panel member obtains data through discussion with the complainant, but keeps no records.
3. The Panel member selects one of the counseling or mediation options suggested by his or her training.
4. If the case seems serious enough, the Panel member refers it to the Equal Opportunity/Affirmative Action Office.

B. Initiating a Formal Investigation

1. A formal investigation may be initiated in either of the following ways:

a. A complainant files a formal grievance under the applicable University grievance procedure. This step may be taken at any time, either with or without consulting a Panel member.

b. A Panel member, believing that further action in a particular case might be appropriate, with the permission of the complainant, consults with the director of the EOAA office and the General Counsel, or their designees. Consultations among the Panel member, General Counsel, and EOAA office may also occur in a case of multiple complaints.

2. All investigatory or formal actions taken will be conducted by the University and not by the Panel.

Panel Membership List

While Panelists are identified by location, school, or administrative area on this list, each of them is in fact available to any member of the Columbia community. Persons who feel uncomfortable speaking with "their" Panelists are encouraged to seek out a Panelist from elsewhere in the University.

Morningside

PROFESSIONAL SCHOOLS

Mary McLeod
Graduate School of Architecture, Planning, and Preservation
Associate Professor
408 Avery
854-3596, 854-3414

Ann Bartel
Graduate School of Business
Professor
710 Uris
854-4419
(on leave, autumn 1990)

Stephen H. Unger
School of Engineering and Applied Science
Department of Computer Science
Professor
505 Computer Science
854-8187, 854-2736

Kenneth Goldstein
Graduate School of Journalism
Professor
608B Journalism
854-4718, 854-4150

William Young
School of Law
Professor
8W8 Law
854-2645

Phyllis Dain
School of Library Service
Professor
611 Butler Library
854-4032

Samuel Miller
School of Social Work
Associate Professor
711 McVickar
854-2735

ARTS AND SCIENCES

(Columbia College, Graduate School of Arts and Sciences, School of General Studies, and School of International and Public Affairs, and School of the Arts)

Padma Desai
Department of Economics
Professor
1015 International Affairs
854-2266, 854-3681

Eric Foner
Department of History
DeWitt Clinical Professor of History
620 Fayerweather, Box 16
854-5253
(on leave, 1989–90)

Inge D. Halpert
Department of Germanic Languages
Professor
312 Hamilton
854-5411
(on leave, 1991–92)

David Helfand
Department of Physics
Professor
1020 Pupin, Box 29
854-2150

Howard Stein
School of the Arts
Professor
605 Dodge
854-3408

CENTRAL ADMINISTRATION

Patricia Long
Assistant Controller
Box 9, Central Mailroom, or
2828 Broadway
854-1052

Sandra Resnikoff
Manager, Computer Systems
CUCCA
612 West 115th Street
854-4793

University Libraries

Angela Giral
Avery Librarian
230 Avery
854-3068

Lamont-Doherty Geological Observatory

Constance Sancetta
Senior Research Scientist
Core Lab., Room 204
Palisades, N.Y. 10964
914-359-2900, Ext. 412

Nevis Laboratories

Michael Shaevitz
Professor of Physics
914-591-8100, Ext. 247

Health Sciences

Jeanette Coy
Harlem Hospital Center
Administrator for Professional Services
Obstetrics and Gynecology
506 Lenox Avenue
491-1573

Rae Janet Jacobs-Cohen
School of Nursing
Assistant Professor
122 Georgian Building
305-2809, 305-5654

Debra Kalmuss
School of Public Health
Associate Professor
Center for Population and Family Health
60 Haven Avenue, Level B-3
305-6960

Daniel W. Morrissey
School of Public Health
Assistant Professor of Clinical Behavioral Science
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305-3989

Marlene Moss-Klyvert
School of Dental and Oral Surgery
Associate Professor of Clinical Dentistry
Box 20 Physicians and Surgeons
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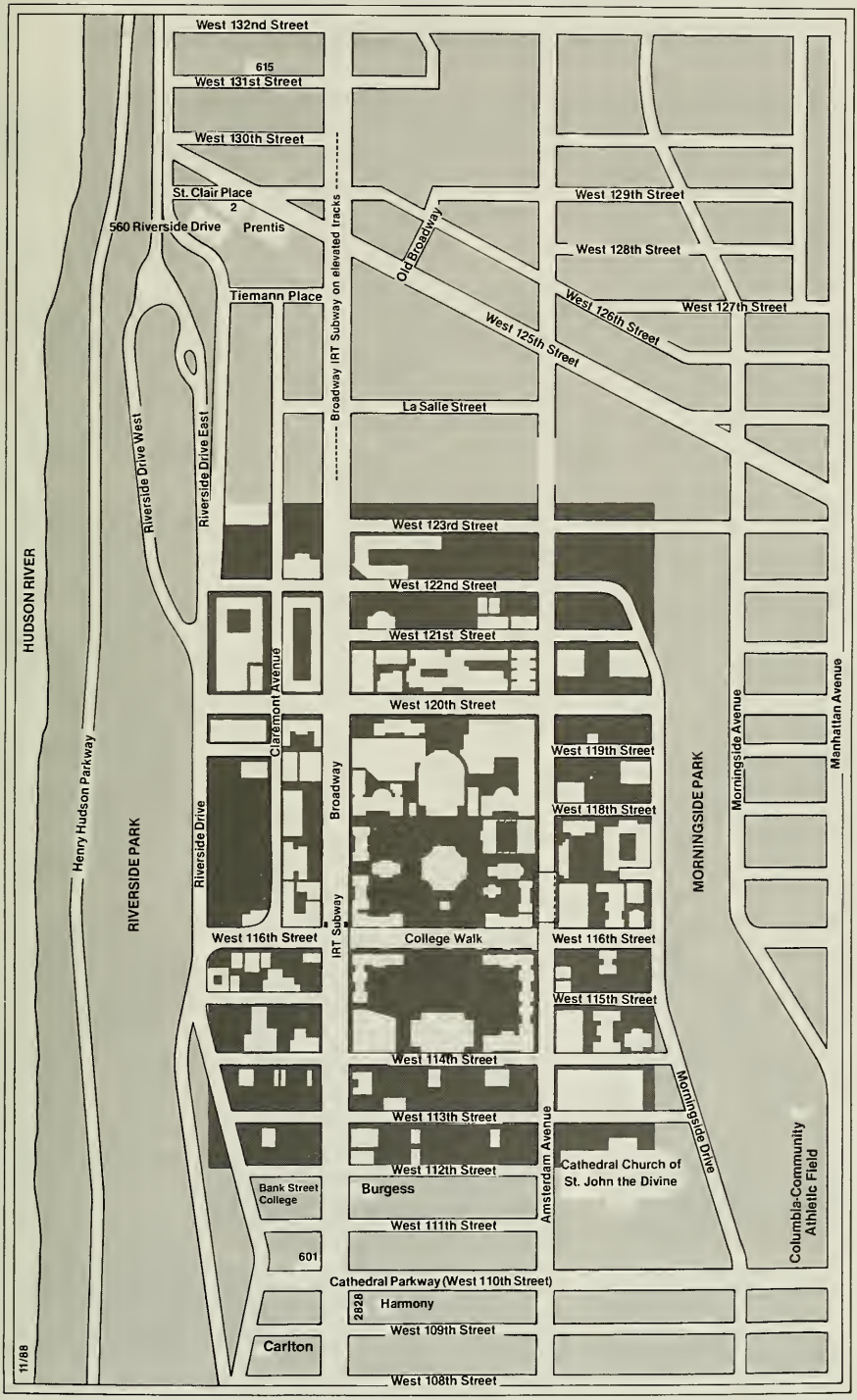
Marion Kelly Murphy
Health Sciences Administration
Departmental Administrator
Pediatrics
Babies Hospital South
1-104
305-7175

Katherine G. Nickerson
College of Physicians and Surgeons
Instructor in Clinical Medicine
Physicians and Surgeons 8-507
305-3645

Ethel Siris
College of Physicians and Surgeons
Associate Professor of Clinical Medicine
Department of Medicine
PH-124
622 West 168th Street
305-2529

Debra Wolgemuth
College of Physicians and Surgeons
Associate Professor of Genetics
1613 Black Building
305-7900

The Morningside Heights Area of New York City



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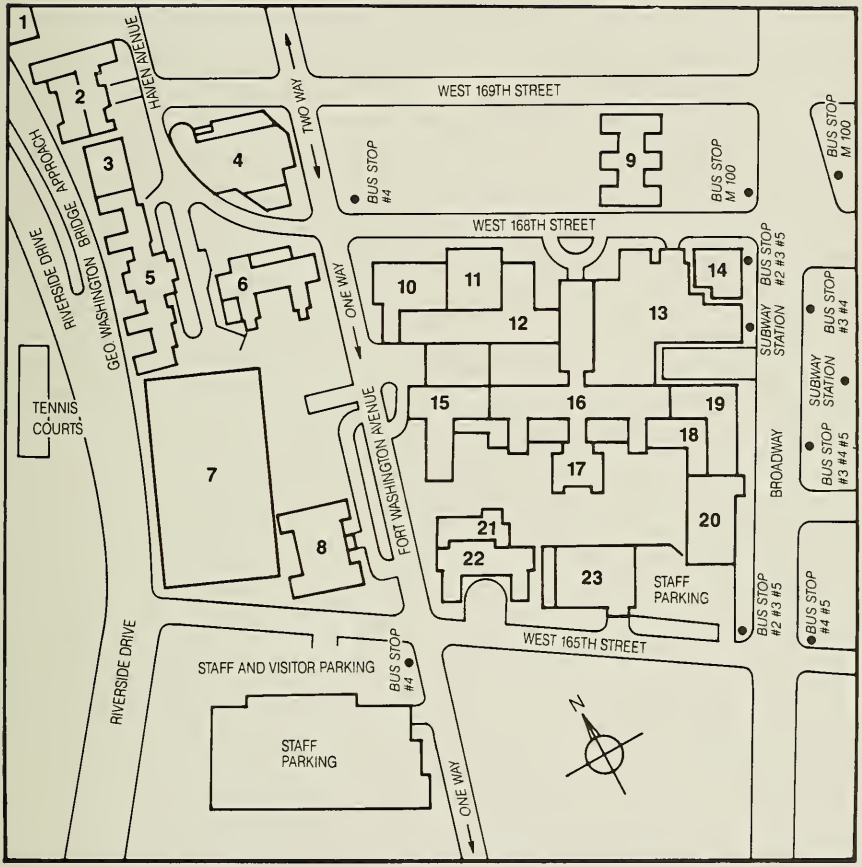
Columbia-Presbyterian Med
Columbia Universi
HEALTH SCIENCES CAMP



1. Bard Haven Apartments
2. Bard Hall Medical Student Residence
3. The Lawrence C. Kolb Research Building
4. Armand Hammer Health Sciences Center– Augustus C. Long Library
5. The New York State Psychiatric Institute
6. The Neurological Institute of New York
7. The Milstein Hospital Building
8. The Dana W. Atchley Pavilion
9. School of Nursing
10. William Black Medical Research Building
11. Alumni Auditorium
12. College of Physicians and Surgeons
13. Vanderbilt Clinic
14. School of Public Health
15. The Harkness Pavilion
16. The Presbyterian Hospital Building
17. The Pauline A. Hartford Memorial Chapel
18. Radiotherapy Center
19. Babies Hospital Building, North
20. Babies Hospital Building, South
    Babies Hospital
    Sloane Hospital for Women
21. Eye Institute Research Laboratories
22. The Edward S. Harkness Eye Institute
23. Service Building

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